

The
NEW
ENGLAND
COLLEGE
of
OPTOMETRY



Catalog
1992 - 94

FOREWORD

This catalogue is designed for the limited purpose of providing information to the students of The New England College of Optometry during their course of study.

The College makes every effort to be certain that the catalogue is substantively true and correct in content and policy as of the date of publication. It should not, however, be construed as the basis of an offer or contract between the College and any present or prospective student. While to the College's knowledge, the catalogue contains no erroneous, deceptive, or misleading statements or omissions, the College retains the right to amend, add or delete any information in the catalogue, including any course of study, program or regulation, subsequent to publication thereof. Announcement of such changes is made on a routine basis within the College.

EQUAL OPPORTUNITY POLICY

The New England College of Optometry prohibits discrimination on the basis of race, sex, religion, color, creed, marital or parental status, sexual preference, or national origin in the recruitment and admission of students, the recruitment and employment of faculty and staff, and the operation of its programs and activities, as specified by federal and state laws and regulations.



THE NEW ENGLAND COLLEGE OF OPTOMETRY

TABLE OF CONTENTS

Letter from the President	iv
Letter from the Chairman of the Board of Trustees	v
I. The Profession and the College	
Mission of The New England College of Optometry	2
The History of the College	3
The Facilities	4
II. Academic Programs	
The Goal of Optometric Education	7
Educational Objectives	7
The Four Year O.D. Program	8
Course Descriptions	13
General Information on Special Academic Programs	28
Postgraduate Clinical Programs	28
Continuing Education	29
III. Admission to the College	
Admission Policies	31
The Application Process	32
Additional Policies for Foreign Applicants to the Four Year O.D. Program	33
Reapplicants	33
Transfer Students	34
Additional Admission Policies for the Accelerated O.D. Program	34
Additional Admission Policies for the Advanced Standing Program for Graduates from Foreign Optometry Schools	34
Early Admissions and Joint B.S./O.D. Degree Programs	34
Program for Minorities and Disadvantaged Students	35

TABLE OF CONTENTS

IV. Tuition, Fees, and Financial Aid

Tuition	37
Fees	37
Payment Policy	37
Refund Policy	37
Student Health Insurance	37
Financial Aid	38

V. Degree Requirements and Academic Policies

Grading and Academic Policies	45
Protocol for Professional Conduct	47
Grievance Procedures	47

VI. Student Services and Activities

Tutorial and Counseling Services	49
Drug and Alcohol Abuse Policy	49
Peer Advising Program	50
Student Activities	50

VII. Trustees, Administration, and Faculty

Board of Trustees	53
Emeritus and Honorary Trustees	53
Members of the Corporation	53
Administration	53
The Faculty	54
Regular Full and Part-Time Faculty	54
Emeritus Faculty	57
Adjunct Part-Time Faculty	57
Adjunct Visiting Faculty	58

Academic Calendar



TO OUR STUDENTS:

Optometry is a rapidly changing profession which will require your dedication and attention to continued growth and learning for the duration of your professional career. Your study at The New England College of Optometry represents but the gate for entry into the profession of optometry. Today almost two-thirds of the states grant optometrists the responsibility to manage and treat diseases of the eye. During your early career all states will provide for this challenge and accept the public trust implicit within this evolution of the profession.

The New England College of Optometry is dedicated to fostering an educational environment where students, faculty, and alumni can learn through active inquiry. Although the principal focus of the College is the education of students, the College also fulfills an important mission of public service through the delivery of optometric care. We have developed a superb network of clinical settings throughout the New England region, the nation, and several foreign countries. This network forms the foundation of a rich and diverse clinical education program for all students.

In addition to an immersion into the visual, biological, and clinical sciences we trust that your education at The New England College of Optometry will provide you with a sensitivity to and awareness of professional ethics, values, and obligations. Indeed upon graduation you will embark upon a career in which you are entrusted with the responsibility for caring for a precious gift - the gift of sight.

Sincerely,

Larry R. Clausen, O.D.
President



Dear Student,

I am delighted that you are considering The New England College of Optometry (NEWENCO) as the institution where you will prepare for your optometric career.

I am truly excited about the 1994 centennial of our College. This anniversary celebrates a century of success for The New England College of Optometry and for optometric education. The accomplishments of our graduates and their contributions to health care and society have been most impressive. Their success reflects the high quality of educational opportunity provided at our College.

The New England College of Optometry is located in the historic Back Bay section of Boston within a city of world-renowned cultural, educational, and health care institutions. We have outstanding and dedicated faculty to assist you in developing your knowledge of didactic and clinical skills. Our extensive network of clinical locations throughout the country and abroad provide diverse experiences for our students which meet the intense clinical practice demands of modern optometry.

I hope to have the opportunity of personally welcoming you as a student of The New England College of Optometry. I am certain that you will find your educational experience and life in Boston most rewarding and enjoyable.

On behalf of The New England College of Optometry Board of Trustees, please accept our best wishes for success in your journey toward a professional career in optometry.

Sincerely,

Joseph Bickford, O.D.
Chairman, Board of Trustees

I. THE PROFESSION AND THE COLLEGE



THE PROFESSION AND THE COLLEGE

Optometry began as a legally recognized health profession in the United States at the turn of the century. During the 1920's, a national optometric accrediting body was formed to evaluate educational programs and judge the quality of optometric education. This movement in optometric education closely paralleled similar developments in medical and dental education.

Specific prerequisites are required for admission, with most entering students having acquired a baccalaureate degree. The seventeen schools and colleges of optometry in the United States and Puerto Rico enroll approximately 1,200 students annually.

All programs are four years in length and lead to the Doctor of Optometry (O.D.) degree which is a prerequisite for licensure eligibility in every state. Individual states may impose their own additional requirements for licensure - such as state board written examinations, the National Board Examination, and practical examinations in clinical optometry.

Most of the 26,000 practicing optometrists in the U.S. serve in private or group practice as primary health care practitioners, diagnosing and treating visual problems and providing health counseling. Many optometrists, however, practice in clinical settings or are involved in government service, industry, school consulting, teaching or research.

Women have been entering the profession in greater numbers; today they comprise nearly one-half of the enrollment at The New England College of Optometry. In addition, the number of ethnic minorities and foreign students has increased. Greater diversity now exists in gender, ethnicity, citizenship, and age.

The composition of the entering classes at

the colleges of optometry has changed dramatically during the last fifteen years. The once relatively homogenous group of enrolled students has become a diverse population more reflective of the general college graduate population.

Among the professional organizations which serve the optometric profession and optometric education are: the American Optometric Association (AOA), the National Optometric Association (NOA), the American Academy of Optometry (AAO), and the Association of Schools and Colleges of Optometry (ASCO).

MISSION OF THE NEW ENGLAND COLLEGE OF OPTOMETRY

The New England College of Optometry, a private and independent professional graduate institution, was founded in 1894 and is chartered by the Commonwealth of Massachusetts to grant the Doctor of Optometry degree. Located in Boston, a city of world-renowned cultural, educational and health care institutions, the College is committed to fulfilling the expectations of its academic environment and the public trust implicit in its charter.

The mission of The New England College of Optometry is to serve the optometric needs of the public by educating optometrists to the highest level of proficiency, integrity, and professionalism.

In achieving its mission, the College

- attracts and supports a faculty which excels at teaching and is committed to the growth and development of students.
- creates a dynamic environment which combines tradition and innovation, fosters intellectual inquiry, and supports research.



- serves the community by providing quality clinical vision care and educating the public about vision and eye health.
- cultivates compassionate and ethical behavior, promotes life-long learning, and instills sensitivity to the health and social welfare of the community.

THE HISTORY OF THE COLLEGE

To review the development of The New England College of Optometry is to review the development of the profession itself. The College had its beginnings in the mid-

1890's, when a Boston ophthalmologist, Dr. August A. Klein, recognized the need for a new profession. In the catalogue for the Klein School of Optics, founded in 1894, Dr. Klein wrote that he sought:

"To create an institution which shall be purely optical in its achievements, without coming into conflict with the medical profession, and yet to fill the gap between physician and optician..."

With Dr. Klein's new school of optics the stage was set for the evolution of a new profession: optometry.

The beginnings of both the profession and Dr. Klein's mission were humble enough. In its first year, the Klein School of Optics employed seven instructors who

THE PROFESSION AND THE COLLEGE

taught classes in optical instruments, refraction and physiology, spectroscopy, anatomy, photographic optics, astronomy, and mechanical optics. The program of study was one year long, and two students were graduated at the end of the first year.

As time went on, the Klein School of Optics and the new profession of optometry gained popularity and support. By 1903, 166 students had completed the Klein program. In 1909, the program expanded to a two-year course, offered as the last two years of high school education.

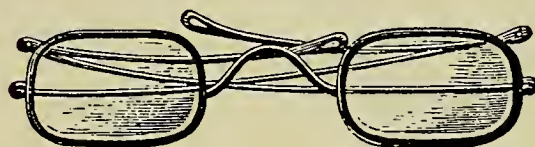
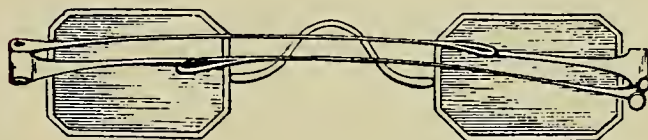
The Klein School of Optics changed its name to the Massachusetts School of Optometry in 1919 and by 1930 required four years of high school prior to enrolling in the two-year program. At this time the profession of optometry was making rapid advancements. Practitioners were becoming recognized as the primary providers of vision care, and the scope of the field was expanding. The curriculum at the Massachusetts School of Optometry expanded to three years in 1934 and to four years in 1939.

By 1950, the institution, by then called the Massachusetts College of Optometry, received the authority to grant the Doctor of Optometry degree. Two years of college were now required for admission. In 1976, the College changed its name to The New England College of Optometry to reflect more accurately its regional constituency.

Today The New England College of Optometry provides a four year professional curriculum backed by fifty full-time equivalent faculty. The academic and clinical programs have been greatly expanded to reflect the changes in the profession. Ever-broadening knowledge in the vision sciences and optometric theory and methods comprise a vital portion of the coursework. With the expanding scope of optometry in the treatment and management of eye health conditions, the curriculum has placed increasing emphasis on

biosciences. The clinical education program blends together the students' theoretical knowledge with actual patient care.

The New England College of Optometry is a non-profit institution which is fully accredited by the Council on Optometric Education and the New England Association of Schools and Colleges.



THE FACILITIES

The College's main classroom building and library are located on Beacon Street in Boston's historic "Back Bay" neighborhood. This beautiful section of the city was at one time a shallow bay. The bay was filled and the reclaimed land area was made available for new construction in the mid-1800's.

Namias Hall

This building located at 424 Beacon Street, named after one of the College's most memorable professors, Dr. Foster Namias, was designed by J.H. Schweinforth and built in 1904. Its interior is distinguished by a spectacular four-story spiral staircase, capped by a circular stained glass window.

Namias Hall houses classrooms, a cafeteria, administrative offices and many of the instructional laboratories. The College bookstore is located in this building and serves students and alumni in providing current texts in vision science and health care, as well as ophthalmic equipment.

Saval Student Center

The Maurice H. Saval Student Center houses the College's student affairs staff. This building, adjacent to Namias Hall, was designed by Little and Brown and constructed in 1899. College admissions, the Dean of Student Affairs, Registrar and student support staff are housed in the Saval Student Center, as is the Optometric Career Access Program, the College's minority student program. Classrooms, laboratories and faculty offices are located in the upper floors of this building which is named for Maurice H. Saval, former Chairman of the Board of Trustees and one of the College's most generous benefactors.

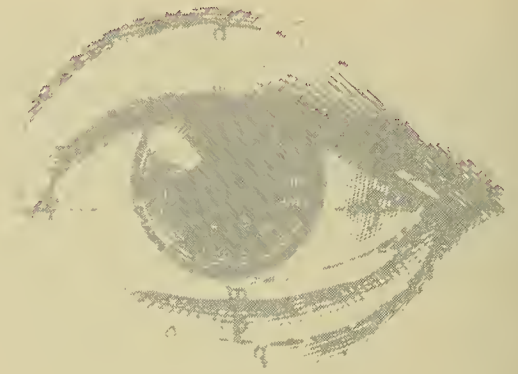
The Library

The College library building was constructed in 1894. It was the childhood home of Emily Sears, who later became Mrs. Henry Cabot Lodge. Its opulence reflects the tastes of the wealthy elite of Boston at that time. The interior is graced with handcarved wooden paneling, marble fireplaces, and handpainted gilt wallcoverings.

The Library houses an extensive collection of materials relating to vision and health care in both print and non-print formats. There are also rooms for quiet reading, areas for small group study, carrels equipped with audio-visual materials, and a small student computer center. Reference services include access to many computerized data bases.

Dormitory/Housing

The College's dormitory is located at 418 Beacon Street, adjacent to the Library. A lottery system is used to select between 20 and 25 students to live on campus, most of whom are first year students. In addition, the admissions office sponsors a housing clinic to help students secure off-campus housing. The dormitory has both single and double rooms, available to male and female students.



The New England Eye Institute

This facility, located at 1255 Boylston Street, offers patients of all ages a comprehensive program of vision care. Services provided include Pediatric Vision, Low Vision and Rehabilitation, Vision Therapy, Ocular Disease Diagnosis and Treatment, Contact Lenses, Electrodiagnostic Services, and advanced Color Vision Testing.

The Pediatric and Vision Therapy Service provides comprehensive visual evaluations for children and adolescents, including tests for strabismus, amblyopia, perception and low vision. It also provides follow-up care in vision therapy with the input of educational and psychological consultants.

The Low Vision and Rehabilitation Service provides vision care for those who, because of physical condition, age, accident, disease or birth defect, have reduced vision which is not correctable by standard optical correction.

The Electrodiagnostic Service utilizes special electronic testing to determine the status of various visual problems. Electroretinograms (ERG) and electro-oculograms (EOG) are two of the tests available through this service.

NEEI's fully equipped, modern facility includes 20 examination rooms and special testing rooms equipped with the latest technology for the examination and treatment of visual and ocular conditions. The Institute also provides an ophthalmic dispensing service with a full selection of modern eyewear.

II. ACADEMIC PROGRAMS



THE GOAL OF OPTOMETRIC EDUCATION

Optometrists are health care professionals who are specially educated and licensed to examine, diagnose, treat and manage conditions of the eye and human visual system. The major goal of the educational program in optometry is to produce a health care practitioner who has appropriate knowledge, skills and competence to fulfill the role of delivering primary ocular and vision care. This includes the ability to diagnose or recognize early signs of ocular, neurological, behavioral and systemic health problems for purposes of treatment, management, co-management, referral, or patient counseling. Optometric education is comprised of a broad-based curriculum in the vision and biosciences, clinical sciences, and patient care experience.

After four years of combined academic and clinical training, graduating students become doctors of optometry - individuals prepared to meet the ocular and visual needs of their patients skillfully and confidently. Optometrists function as primary vision care professionals ready to interact with other health care providers to improve the human condition.

EDUCATIONAL OBJECTIVES

In keeping with the role of optometric education outlined above, The New England College of Optometry has established the following goals for its educational programs:

- to provide an educational environment which ensures intellectual growth and scholarly development;
- to provide education in the biosciences in order to foster understanding of the mechanisms which affect both the normal and diseased human state;

- to provide education in the vision sciences so that the student can come to understand the mechanisms underlying normal and abnormal vision and to appreciate the methodology used to diagnose and treat human visual conditions;
- to provide the student with clinical examination, diagnostic, treatment, and communication skills, and through supervised clinical experiences, equip the student with the skills used in patient interviewing and counseling, and the ability to make sound clinical judgements;
- to inculcate the knowledge, skills and attitudes needed to diagnose, treat or manage diseases of the visual system, ocular effects of systemic conditions and high-incidence diseases that may or may not affect the visual system;
- to familiarize the student with general and ocular emergency procedures;
- to provide the knowledge, skills, and attitudes that will enable the optometrist to serve as a community resource in matters of applied visual science, disease prevention, and some health practices;
- to enable the proper management of patient problems by appropriate referral to a practitioner with advanced education in such areas as pediatrics, vision therapy, low vision rehabilitation, and secondary ophthalmic care;
- to acquaint the student with modes of optometric practice and practice management techniques.

THE FOUR-YEAR O.D. PROGRAM

The curriculum comprises courses in five departments: Vision Science, Bioscience, Patient Care Management, Internal Clinical Programs, and External Clinical Programs. The courses cover the basic curricular elements of vision science, optics, optometric theory and practice, and supervised clinical patient care. Each makes its contribution to the development of a competent professional capable of managing conditions of the human eye and visual system.

The curriculum in vision science provides knowledge in optics and an understanding of the structure and function of the visual system. To that end, the content of the curriculum is presented within three general areas: optics, physiological optics and ocular neuroscience.

Courses in the biosciences provide the student with an understanding of the normal and abnormal structure and function of the human organism. Background is provided in the fundamental anatomical, biochemical and biophysical mechanisms and the physiological and pathological processes.

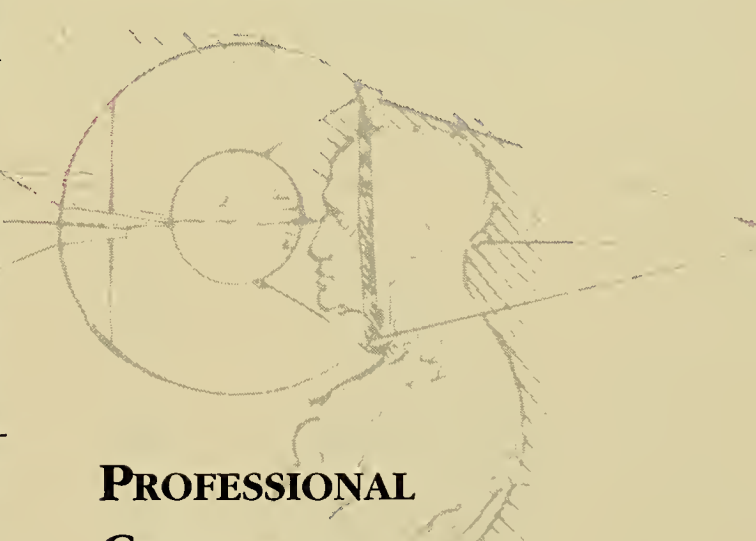
Optometric theory and practice provides students with a background for the specific skills, clinical insights, and patient-management capabilities required of optometrists.

Coursework emphasizes general characteristics of human vision problems; measurement of the ocular refractive states; properties and use of ophthalmic lenses, devices and appliances; assessment and treatment of binocular conditions and the diagnosis, treatment and management of ocular disease and ocular effects of systemic disease.

Clinical experience enables the students to become competent optometric professionals who can integrate scientific knowledge with clinical insights to diagnose, treat, and manage visual and ocular problems. It

begins in the lecture/laboratory setting during the first year, and progresses to direct patient contact during the second, third and fourth years. The preceptorship method is used throughout the program. It calls for close initial supervision by licensed faculty members, which is gradually relaxed as the student develops greater clinical proficiency and assumes more responsibility. The role of the preceptor slowly changes from that of a supervisor to that of a consultant.

The first three elements of optometric education, vision science, bioscience and optometric theory and methods, are concentrated in the first two years of study. From year to year the emphasis gradually changes, with optometric diagnosis, treatment, management and clinical experience becoming the major portion of the educational process by the third year. The experience of the final year is entirely clinical with the student being assigned to a variety of practice settings.



PROFESSIONAL CURRICULUM

Four Year O.D. Program

Didactic courses are taught within the first three program years, with elective course elements supplementing core courses of the third year. The fourth year of the Professional Curriculum consists of individually assigned clinical rotations.

ACADEMIC PROGRAMS

FIRST YEAR

	TITLE	COURSE #	DEPARTMENT	CREDITS
F Q	Human Anatomy-I	1011	Bioscience	4
A U	Tissue and Organ Histology	1020	Bioscience	3
L A	Molecular & Cellular Basis of Disease & Therapy-I	1111	Bioscience	4
L R	Geometrical Optics	1411	Vis. Science	4
T	Psychophysics	1511	Vis. Science	3
E	Optometric Theory & Methods-I	1711	Pat. Care Mgt.	5
R	Health Care in The U.S.	1810	Pat. Care Mgt.	2
			Quarter Credit Hours	<u>25</u>
W Q	Human Anatomy-II	1012	Bioscience	3
I U	Systems Physiology-I	1121	Bioscience	4
N A	Molecular & Cellular Basis of Disease & Therapy-II	1112	Bioscience	2
T R	Immunology	1130	Bioscience	2
E T	Ophthalmic Optics	1412	Vis. Science	4
R E	Visual Perception	1512	Vis. Science	3
R	Optometric Theory & Methods-II	1712	Pat. Care Mgt.	5
			Quarter Credit Hours	<u>23</u>
S Q	Neuroanatomy	1012	Bioscience	4
P U	Microbiology	1121	Bioscience	3
R A	Systems Physiology	1122	Bioscience	4
I R	Ocular Physiology	1113	Bioscience	4
N T	Visual Optics	1513	Vis. Science	3
G E	Mechanical Optics	1413	Vis. Science	2
R	Optometric Theory & Methods-III	1713	Pat. Care Mgt.	5
	Literature Research-I	1721	Pat. Care Mgt.	2
			Quarter Credit Hours	<u>27</u>

ACADEMIC PROGRAMS

SECOND YEAR

	TITLE	COURSE#	DEPARTMENT	CREDITS
F Q A U L A L R	General Pharmacology	2151	Bioscience	4
	Intro. to Ocular Disease-I	2211	Bioscience	4
	Special Topics in Optics	2414	Vis. Science	3
	Neurophysiology of Vision	2520	Vis. Science	3
	Ocular Myology	2530	Vis. Science	3
T E R	Introduction to Clinical Care-I	2741	Pat. Care Mgt.	3
			Quarter Credit Hours	20
W Q I U N A T R	Ocular Pharmacology	2152	Bioscience	3
	General Pathology	2221	Bioscience	3
	Intro. To Ocular Disease-II	2212	Bioscience	4
	Monocular Sensory Aspects of Vision	2540	Vis. Science	3
	Normal and Abnormal			
E T R E R	Development of Vision	2550	Vis. Science	3
	Anomalies of Binocular Vision	2560	Vis. Science	3
	Introduction to Clinical Care-II	2742	Pat. Care Mgt.	3
			Quarter Credit Hours	22
S Q P U R A I R	Systems Pathology	2222	Bioscience	3
	Color Vision	2570	Vis. Science	2
	Space Perception	2580	Vis. Science	3
	Sensory and Motor			
	Anomalies of Vision	2590	Vis. Science	2
N T G E R	Binocular and Accommodative			
	Anomalies of Vision	2751	Pat. Care Mgt.	4
	Contact Lenses-I	2761	Pat. Care Mgt.	2
	Intro. to Clinical Practice	2910	Clinic	2
			Quarter Credit Hours	18

ACADEMIC PROGRAMS

THIRD YEAR

	TITLE	COURSE#	DEPARTMENT	CREDITS
SUMMER QUARTER	Intro. to Clinical Practice-I	3911	Clinic	<u>3</u>
			Quarter Credit Hours	3
F Q	Clinical Medicine-I	3231	Bioscience	4
A U	Strabismus and Amblyopia	3752	Pat. Care Mgt.	4
L A	Contact Lenses-II	3762	Pat. Care Mgt.	5
L A	Vision Rehabilitation	3771	Pat. Care Mgt.	2
L R	Patient Interviewing			
	and Counseling	3781	Pat. Care Mgt.	2
T	Basic Clinical Practice-II	3912	Pat. Care Mgt.	<u>3</u>
E			Quarter Credit Hours	20
R				
W Q	Clinical Medicine-II	3232	Bioscience	2
I U	Ocular Disease-I	3241	Bioscience	4
N A	Pediatric Optometry	3753	Pat. Care Mgt.	4
T R	Practice Management-I	3811	Pat. Care Mgt.	2
E T	Geriatrics	3790	Pat. Care Mgt.	1
R E	Literature Research-II	3722	Pat. Care Mgt.	2
	Adult Psychology	3782	Pat. Care Mgt.	2
	Basic Clinical Practice-III	3913	Clinic	3
	Vision Rehabilitation Lab	3772	Pat. Care Mgt.	<u>1</u>
R			Quarter Credit Hours	21
S Q	Ocular Disease-II	3242	Bioscience	1
P U	Neurological Dysfunction	3250	Bioscience	2
R A	Treatment/Management			
I R	of Ocular Disease	3260	Bioscience	3
N T	Practice Mangement-II	3812	Pat. Care Mgt.	2
G E	Public Health	3820	Pat. Care Mgt.	1
	Epidemiology & Statistics	3830	Pat. Care Mgt.	2
	Patient Psychology	3783	Pat. Care Mgt.	1
	Basic Clinical Practice-IV	3914	Clinic	3
	* Electives			4
R	Contact Lens-Clinical Practice	3941	Clinic	<u>2</u>
			Quarter Credit Hours	21

THIRD YEAR

*ELECTIVE COURSES

(a minimum of 4 units of electives are required in the Third Year)

- Advanced Contact Lens Seminars (2 credits)
- Advanced Pediatric Optometry (2 credits)
- Advanced Photodocumentation (1 credit)
- Advanced Vision Rehabilitation (2 credits)
- Basic Small Business Accounting (2 credits)
- Behavioral Optometry (1 credit)
- Clinical Management of the Post-operative Cataract Patient (1 credit)
- Differential Diagnosis and Decision Making (1 credit)
- Differential Diagnosis in Uveal Tract Disease (2 credits)
- Electrodiagnosis (2 credits)
- Environmental Optometry (1 credit)
- Examining the Hispanic Patient (1 credit)
- Fabrication of Ophthalmic Materials (1 credit)
- Introduction to Microcomputers (1 credit)
- Introduction to Ophthalmic Pathology (2 credits)
- Selected Topics in Problem-based Clinical Thinking (1 credit)

Elective Courses listed are subject to change depending on curricular needs and student interest.

FOURTH YEAR

Clinical Practice	491X	External Clinic	20
	492X	External Clinic	20
	493X	External Clinic	20
Contact Lens Practice	4942		<u>4</u>
		Credit Hours	64



COURSE DESCRIPTIONS

First Professional Year (OD I)

Department of Biosciences

Human Anatomy I (#1011)

Fall Qtr. 4 credits
(3 H. Lec.; 0.8 H. Lab.)

Human Anatomy II (#1012)

Winter Qtr. 3 credits
(3 H. Lec.)

Human Anatomy I & II present gross anatomy as the basis for understanding clinical disease. Strong emphasis is placed upon the anatomy of the head and neck. There is a thorough examination of the orbit and adnexa followed by detailed study of the gross and microscopic anatomy of the eye. Laboratory study supplements didactic content.

First Professional Year (OD I)

Tissue and Organ Histology (#1020)

Fall Qtr. 3 credits
(2.5 H. Lec.; 1 H. Lab.)

Tissue and Organ Histology provides the student with an understanding of the structure and function of human tissues and the roles these play within organs. Observations of specimens with the light microscope are organized around a laboratory manual designed to promote inquiry into the relationship between generalized types of tissues and ocular structure. The course analyzes disease-induced changes in structure and function. Lecture, discussion, and laboratory exercises stress concepts that provide a solid basis for understanding tissue alterations which occur in disease and tissue changes which may occur when certain pharmaceutical agents are administered.

Molecular & Cellular Basis of Disease & Therapy I (#1111)

Fall Qtr. 4 credits
(4 H. Lec.)

Molecular & Cellular Basis of Disease & Therapy II (#1112)

Winter Qtr. 2 credits
(2 H. Lec.)

Molecular and Cellular Basis of Disease and Therapy I and II present selected topics in cellular physiology, biochemistry, and molecular biology. These courses are designed to provide the student with an understanding of biochemical mechanisms which underlie normal function, disease processes, and drug action. This course of study begins by emphasizing the hierarchical nature of disease, with symptoms at the apex and molecules at the base of a "disease pyramid." The course next explores the relationship between protein structure and function and considers the biochemical

basis of genetics, noting transfer of information from DNA to RNA to protein. The basis of viral infection and viral oncogenesis are studied. The course prepares the student for subsequent study of Ocular Physiology and provides the foundation for understanding pathophysiology and pharmacologic drug-receptor interactions.

Ocular Physiology (#1113)

Spring Qtr. 4 credits
(4 H. Lec.)

Ocular Physiology examines the biochemistry and the physiology of the eye. Study of the anterior segment includes eyelids, tears, cornea and aqueous humor and intraocular pressure. Consideration of the posterior segment stresses lens, vitreous, and retina. The course examines ways by which the normal function of ocular tissues are commonly compromised in disease and notes clinical signs and symptoms which may result.

Systems Physiology I (#1121)

Winter Qtr. 4 credits
(4 H. Lec.)

Systems Physiology II (#1122)

Spring Qtr. 4 credits
(4 H. Lec.)

Systems Physiology I and II present general concepts of human physiology and systems, including homeostatic mechanisms. Topics include blood; the cardiovascular system; lymphatics; the gastrointestinal system; nutrition; body fluids; renal physiology; endocrinology; physiology of respiration; hepatic physiology and muscle physiology. Students are prepared to understand the basis of pathophysiological mechanisms in systemic and ocular disease. These courses provide the necessary

First Professional Year (OD I)

background for subsequent studies of clinical medicine, pathophysiology, pharmacology, and ocular therapeutics.

Immunology (#1130)

Winter Qtr. 2 credits
(2 H. Lec.)

Immunology presents principles basic to understanding immune mechanisms which contribute to pathological processes. The role of both specific cells, such as B and T lymphocytes and antigen-presenting cells, and non-specific cells, such as natural killer cells, neutrophils, and macrophages in immunological reactions are explored. The genetic basis for immunological reactions driven by MHC (Major Histocompatibility Complex) molecules is emphasized. The critical roles of antigen-specific receptors, adhesion molecules, and soluble cell products (lymphokines/cytokines) are investigated. Other topics include generation of immunologic diversity, transplantation, the complement cascade, autoimmunity, immunotherapy, and ocular immunology.

Neuroanatomy (#1013)

Spring Qtr. 4 credits
(4 H. Lec.; 1 H. Lab.)

Neuroanatomy examines the gross anatomy of the central and peripheral nervous systems, support structures and membranes covering the central nervous system and the brain's ventricular and vascular systems. All major neurological sub-systems are presented, with an emphasis on visual ocular motor structure and function. Functional aspects of neuroanatomy and physiological correlates of neuroanatomical function are described. Mechanisms for information processing are analyzed. Special attention is afforded to those cranial nerves that contrib-

ute to visual functioning. Clinical cases are introduced to demonstrate relevance. Laboratory exercises include dissection of a sheep's brain and the study of human brain models and human neurological tissue.

Microbiology (#1140)

Spring Qtr. 3 credits
(2 H. Lec.; 1 H. Lab.)

Microbiology provides the student with an understanding of the role of microbial agents in disease, the diagnosis of microbial disease, and pharmaceutical intervention in disease processes. Students develop an appreciation for the structure and functioning of those bacteria, viruses, fungi, chlamydia, and protozoa that are significant in disease. Interactions between host and microbe are analyzed in order to demonstrate mechanisms by which infectious disease is produced and can be combatted through the use of an appropriate therapeutic agent.

Department of Visual Sciences

Geometric Optics (#1411)

Fall Qtr. 4 credits
(3 H. Lec.; 1 H. Lab.)

Geometric Optics presents the following topics: image formation by reflection and refraction in mirrors, lenses and prisms; analysis of thin lens combinations and thick lenses in terms of cardinal points; limitation of rays by apertures; and aberrations of optical systems and the theory of optical instruments.

Psychophysics (#1511)

Fall Qtr. 3 credits
(3 H. Lec.)

Psychophysical methods underlie many vision tests. Psychophysics presents methods

First Professional Year (OD I)

directed toward obtaining measurable information, using a human observer. Classical and modern techniques of threshold measurement are discussed, as is contemporary signal detection theory. Psychophysical approaches to light detection and color vision, as well as spatial and temporal parameters affecting perception, are discussed.

Ophthalmic Optics (#1412)

Winter Qtr. 4 credits
(4 H. Lec.; 1 H. Lab.)

In **Ophthalmic Optics**, optical principles are applied to the study of ophthalmic lenses including spheres, cylinders, prisms, multifocal lenses, and contact lenses. Design parameters for ophthalmic lenses and applications to the correction of vision defects are discussed.

Visual Perception (#1512)

Winter Qtr. 3 credits
(3 H. Lec.)

Visual Perception applies psychophysical principles to provide the student with an understanding of complex visual stimuli, complicated viewing conditions, and information processing. This course explores processes underlying many aspects of everyday visual experiences and situations or conditions where such processes may be disrupted. Perceptual processes discussed include high-order visual activity and the influence of non-visual factors such as attention and memory upon visual perception.

Visual Optics (#1513)

Spring Qtr. 3 credits
(3 H. Lec.; 0.5 H. Lab.)

Visual Optics studies the eye as an optical instrument. Topics include optical and physical constants of the eye, theoretical aspects of refractive error, optical aspects of accommodation, and the pupil as a limiting aperture. The Von Seidel aberrations of the eye are discussed as are ocular depth-of-focus and depth-of-field. The optical principles of ophthalmic instruments and their application to clinical practice and research are presented.

Mechanical Optics (#1413)

Spring or Fall Qtr. 2 credits
(1 H. Lec.; 1 H. Lab.)

In **Mechanical Optics**, lectures and laboratory exercises are used to teach the clinical aspects of fitting and adjusting of ophthalmic lenses and frames. Students learn frame and ophthalmic material selection and ordering as well as inspection and verification of ophthalmic prescriptions. Special procedures, such as those related to fitting the aphakic patient or the patient with ptosis, are presented.

First Professional Year (OD I)

Department of Patient Care Management

Optometric Theory & Methods I (#1711)

Fall Qtr. 5 credits
(4 H. Lec.; 2 H. Lab.)

Optometric Theory & Methods II (#1712)

Winter Qtr. 5 credits
(4 H. Lec.; 2 H. Lab.)

Optometric Theory & Methods III (#1713)

Spring Qtr. 5 credits
(4 H. Lec.; 2 H. Lab.)

Optometric Theory and Methods is a team-taught three quarter sequence which introduces the student to basic optometric theory and clinical techniques used in the examination of patients. Topics include objective and subjective methods to evaluate refractive, binocular, accommodative, and ocular health status. Students are given an introduction to optometric case analysis using the principles of the problem oriented examination.

Health Care In The U.S. (#1810)

Fall Qtr. 2 credits
(2 H. Lec.)

This course presents the **Health Care** system in the United States and the optometrist's relationship to it through the disciplines of history, economics, law and ethics.

Literature Research I (#1721)

Spring Qtr. 2 credits

Literature Research I is intended to teach the student how to obtain and evaluate research findings from the literature. Students learn library research methods and scientific writing skills. Each student is required to write a paper related to some aspect of basic science with direct relevance to optometry. Students learn how to conduct a manual search of the literature and how to prepare papers for submission to optometric journals.



Second Professional Year (OD II)

Department of Biosciences

General Pharmacology (#2151)

Fall Qtr. 4 credits
(4 H. Lec.)

General Pharmacology presents basic pharmacological principles including the actions and effects of drugs used to diagnose and treat disease, the clinical properties of widely-used systemic drugs, and the ocular and visual side effects of systemic medications in current clinical use.

Ocular Pharmacology (#2152)

Winter Qtr. 3 credits
(3 H. Lec.)

Ocular Pharmacology deals with the properties, clinical attributes and practical applications of pharmacological agents used in ophthalmic diagnosis and therapy. The course emphasizes the basic principles of ophthalmic pharmacology, clinical application of drugs used in the diagnosis and treatment of ocular disease and ocular manifestations of systemic disease. Special attention is paid to practical matters, including contraindications, precautions, dosage, administration, side effects, drug interactions, and legal considerations related to use and prescribing of ocular pharmaceuticals.

Introduction to Ocular Disease I (#2211)

Fall Qtr. 4 credits
(3 H. Lec.; 2 H. Lab.)

Introduction to Ocular Disease II (#2212)

Winter Qtr. 4 credits
(3 H. Lec.; 2 H. Lab.)

This two quarter sequence provides the foundation for the differentiation of normal and abnormal presentations of the eye and ocular adnexa. This is achieved by ensuring

that the student applies basic science concepts in learning the clinical process of diagnosing ocular disease. Laboratory sessions teach the student how to perform and interpret clinical techniques used to assess ocular health status.

General Pathology (#2221)

Winter Qtr. 3 credits
(3 H. Lec.)

General Pathology provides students with an understanding of basic pathologic processes, such as cell injury, inflammation, and tumor development. It shows how pathological change becomes manifest in clinical disease. Classroom discussion is stimulated by a review of case studies.

Systems Pathology (#2222)

Spring Qtr. 3 credits
(2.5 H. Lec.; 1 H. Lab.)

Systems Pathology extends prior content by further utilizing microscopic examinations of tissue sections and studies of actual clinical cases to facilitate student understanding of ocular and systemic disease. Special effort is made to ensure that the student understands how therapeutic agents can be used to intervene in disease processes.

Department of Visual Sciences

Special Topics in Optics (#2414)

Fall Qtr. 3 credits
(3 H. Lec.; 1 H. Lab.)

Special Topics in Optics presents topics on advanced ophthalmic optics and physical optics including the optical characteristics of strong lenses and progressive addition lenses, scattering and absorption of light, especially by the eye and ophthalmic appliances, wave properties of light: optical

Second Professional Year (OD II)

polarization, interference and diffraction and their practical significance, quantum properties of light: photochemical reactions, and black body absorption and emission of visible radiation.

Neurophysiology of Vision (#2520)

Fall Qtr. 3 credits
(3 H. Lec.)

Neurophysiology of Vision provides an introduction to the neural functioning of the visual system. Topics include transduction, encoding and transmission of information by single neurons, brain processing of visual information and neural mechanisms that underlie specific aspects of human vision.

Ocular Myology (#2530)

Fall Qtr. 3 credits
(3 H. Lec.)

Ocular Myology deals with anatomical, physiological, neuropharmacological, mechanical, and cybernetic properties related to extraocular and intraocular muscles, and ocular adnexa. It also considers kinematics. Ocular myology provides the student with the knowledge needed to understand normal and abnormal functioning of the oculomotor system, pupil, and accommodation.

Normal and Abnormal Development of Vision (#2550)

Winter Qtr. 3 credits
(3 H. Lec.)

Normal and Abnormal Development of Vision deals with the anatomical and physiological development of the visual system as related to behavioral-tested infant vision. The effects of unusual environmental factors, such as pattern deprivation and strabismus, upon parameters such as ocular

refraction, visual acuity and binocular vision, are examined. Clinical manifestations of abnormal visual development are discussed.

Monocular Sensory Aspects of Vision

(#2540)

Winter Qtr. 3 credits
(3 H. Lec.; 0.6 H. Lab.)

Monocular Sensory Aspects of Vision

presents the sensory components of vision and visual perception from the standpoint of their physical and physiological bases. Topics include factors that influence detection of visual targets, the properties of rods and cones, light and dark adaptation, brightness discrimination, spatial aspects of vision, visual acuity, contrast sensitivity, and temporal aspects of vision. Discussion of temporal aspects of vision includes consideration of afterimages, critical fusion frequency and subfusional flicker phenomena. Students participate in laboratory exercises designed to show clinically relevant aspects of temporal and spatial visual phenomena.

Anomalies of Binocular Vision (#2560)

Winter Qtr. 3 credits
(3 H. Lec.; 0.6 H. Lab.)

Anomalies of Binocular Vision begins with discussion of accommodative-convergence relationships and then presents common nonstrabismic anomalies of binocularity. The use of fixation disparity analysis, graphical analysis, functional analysis, systems analysis, and transient/sustained analysis is presented. This provides an introduction to the use of vision therapy in the treatment of non-strabismic accommodative-convergence anomalies.

Second Professional Year (OD II)

Color Vision

(#2570)

Spring Qtr. 2 credits

(2 H. Lec.; 0.2 H. Lab.)

Topics discussed include the interrelationship of radiometric and photometric units, colorimetry, the C.I.E. System, and Munsell color notation. The characteristics of normal and defective color vision are considered and evidence is presented that is consistent with each principal theory of color vision. Clinical methods used to assess congenital and acquired color vision anomalies are presented.

Visual Space Perception

(#2580)

Spring Qtr. 3 credits

(3 H. Lec.; 0.2 H. Lab.)

This course presents elements of space perception critical to understanding the clinical conditions of strabismus, amblyopia and aniseikonia. Topics include oculocentric and egocentric localization, empirical depth clues, binocular retinal correspondence, the horopter, Panum's fusional area, sensory fusion, binocular rivalry, stereopsis, stereoacuity, and neurophysiological aspects of binocular vision.

Sensory and Motor Anomalies of Vision

(#2590)

Spring Qtr. 2 credits

(2 H. Lec.)

Sensory and Motor Anomalies of Vision presents methods used to evaluate the integrity of the nerve supply to the eye. Its scope embraces assessment of the sensory nerves, including the optic nerve, parts of the ophthalmic and maxillary divisions of the trigeminal nerve, and the labyrinthine division of the acoustic nerve. Evaluation of the motor supply to the eye and its adnexae, including somatic control by the oculomotor,

trochlear, abducens, and facial nerves and autonomic control, is discussed.

Department of Patient Care Management

Introduction to Clinical Care I (#2741)

Fall Qtr. 3 credits

(4 H./week)

Introduction to Clinical Care II (#2742)

Winter Qtr. 3 credits

(4 H./week)

This two course sequence utilizes the Problem Based Learning format and laboratory exercises to develop the student's ability to perform an accurate and efficient optometric examination, analyze data and determine treatment and management options. Students are also introduced to ophthalmic dispensing in the clinical setting. The course supports students' transition between preclinical course work and direct patient care assignments.

Binocular and Accommodative Anomalies

(#2751)

Spring Qtr. 4 credits

(3 H. Lec.; 1 H. Lab.)

Binocular and Accommodative Anomalies begins with an historical review of orthoptics, followed by conceptual and functional definitions of vision therapy. Three primary areas discussed in this course include: ocular motor, accommodative, and binocular visual dysfunction and their remediation. Students are taught how to design and implement vision therapy programs. Laboratory exercises provide "hands-on" experience with relevant diagnostic and therapeutic procedures.

Second Professional Year (OD II)



Contact Lenses I

(#2761)

Spring Qtr. 2 credits
(2 H. Lec.)

Contact Lenses I provides an introduction to contact lens care with topics covering the history of contact lenses, relevant aspects of anterior segment anatomy and physiology, topography of the cornea, physical structure and optical characteristics of contact lenses, terminology used in contact lens practice, and principles applicable to the fitting of rigid lenses.

Department of Internal Clinics

Introduction to Clinical Practice (#2910)

Spring Qtr. 2 credits
(4 H. Clinic/week)

Introduction to Clinical Practice introduces students to clinical patient care under the direct supervision of licensed clinical faculty. Emphasis is placed on accurate and efficient examination procedures, record keeping, clinical protocols, and interpersonal skills.

Third Professional Year (OD III)

Department of Biosciences

Clinical Medicine I (#3231)

Fall Qtr. 4 credits
(4 H. Lec.)

Clinical Medicine II (#3232)

Winter Qtr. 2 credits
(2 H. Lec.)

Clinical Medicine I and II is a two quarter course of study. Topics are selected either by virtue of significant ocular involvement or because they reflect common conditions encountered in optometric practice. Topics include atherosclerotic disease, hypertension, ischemic heart disease, heart failure, disorders of cholesterol metabolism, hematologic disease, neurologic disease, endocrine disease, rheumatologic and other systemic inflammatory disease, and common medical emergencies. Pathophysiological bases, signs and symptoms, methods of diagnosis, and practical aspects of management are emphasized. The course discusses screening methods for genetic and neoplastic disease, interpretation of common laboratory test results, protocols for patient referral, and potential for a disease to give rise to complications in response to the administration of certain ocular medications.

Ocular Disease I (#3241)

Winter Qtr. 4 credits
(4 H. Lec.)

Ocular Disease II (#3242)

Spring Qtr. 1 credit
(1 H. Lec.)

Ocular Disease I focuses on ocular inflammatory disease, retinal vascular disorders, peripheral retinal disease, macular disease, optic nerve disease, and ocular trauma. Etiological factors and pathophysiological mechanisms are investi-

gated. **Ocular Disease II** deals primarily with glaucoma, cataracts, and post-operative management of cataract surgery.

Ocular Disease I is presented in both traditional lecture and Problem Based Learning format.

Neurological Dysfunction (#3250)

Winter & Spring Qtr. 2 credits
(2 H. Lec.)

(Half class, Winter Y3; Half, Spring Y3)

Neurological Dysfunction presents topics in the field of neurology, including transient loss of vision, eye pain, headache, optic nerve disease, supranuclear disorders of eye movement, and non-ocular neurological symptomology.

Treatment and Management of Ocular Disease (#3260)

Spring Qtr. 3 credits
(3 H. Lec.; 0.6 H. Lab.)

This advanced course in the ocular disease track presents the theoretical and practical aspects of ocular disease treatment and management. Course content includes treatment and management of diseases of the anterior and posterior segment, ocular adnexa and glaucoma; appropriate use of non-optometric consultation and referral.

Department of Patient Care Management

Clinical Management of Strabismus and Amblyopia (#3752)

Fall Qtr. 4 credits
(3 H. Lec.; 1 H. Lab.)

This course provides an organized approach to the clinical evaluation and management of patients with strabismus and/or amblyopia. Included are considerations of the etiology,

Third Professional Year (OD III)

signs and symptoms, natural history, practical significance, and clinical management of comitant esotropia, comitant exotropia, and noncomitant strabismus. Associated anomalies discussed include eccentric fixation, anomalous retinal correspondence, ocular suppression, and abnormalities of the accommodative-vergence relationship. The laboratory component provides hands-on experience with relevant diagnostic and treatment procedures.

Contact Lenses II (#3762)

Fall Qtr. 5 credits
(3 H. Lec.; 4 H. Lab.)

Contact Lenses II presents topics of contact lens solutions and their applications, tissue complications of contact lens wear, the fitting of rigid gas permeable lenses and soft lenses, and the principles and regimens of appropriate follow-up care. Students also learn procedures, advantages, complications, and limitations associated with extended wear lenses and are introduced to special problems that attend the fitting of aphakic, presbyopic, and keratoconic patients. Laboratory exercises provide hands-on experience in the fitting of contact lenses, contact lens modification and analysis, and examination techniques.

Vision Rehabilitation (#3771)

Fall Qtr. 2 credits
(2 H. Lec.)

Vision Rehabilitation discusses the epidemiology of visual impairment, functional effects of ocular disorders, principles of magnification, low vision examination techniques, and patient education and training in the use of low vision devices. Emphasis is placed on the psychological and

psychosocial aspects of the visually impaired patient. The interdisciplinary approach to treatment and management is also stressed.

Patient Interviewing and Counseling (#3781)

Fall Qtr. 2 credits
(0.6 H. Lec.; 1.4 H. Lab.)

Patient Interviewing and Counseling deals with the optometrist/patient relationship generally. It discusses the proper approach to obtaining an optometric case history. Interviewing skills and counseling strategies are taught. Students are introduced to approaches for handling the more difficult forms of optometrist/patient interaction. Individual communication skills are enhanced through the use of feedback provided by videotapes of role-playing episodes and preparing written correspondence to a patient.

Pediatric Optometry (#3753)

Winter Qtr. 4 credits
(4 H. Lec.)

Pediatric Optometry addresses assessment methods and treatment procedures appropriate for use with children. It considers psychosocial issues relevant to interactions with children and their families. Techniques for assessing visual status and ocular integrity of infants, preschool children, and school age children are taught. Parameters measured or assessed include visual acuity, refractive error, and binocular vision status. The role of the optometrist in the diagnosis and clinical management of children having developmental disabilities is discussed. Ocular disease in the pediatric population is surveyed.

Third Professional Year (OD III)

Practice Management I (#3811)

Winter Qtr. 2 credits
(2 H. Lec.)

Practice Management II (#3812)

Spring Qtr. 2 credits
(2 H. Lec.)

This two course sequence considers administrative, economic, legal, and social aspects of optometric practice. Topics in **Practice Management I** include practice options and choices, goal setting, choosing a practice location, and valuing/buying a practice. Contracts are discussed, including partnership agreements. The student learns how to find employment, prepare a resume, run an optometric office efficiently, and deal with third-party payment plans. In **Practice Management II** emphasis is upon personal and professional business and finance. There are lectures on financial planning, retirement planning, professional malpractice and office insurance, and ethical methods of professional marketing.

Geriatrics (#3790)

Winter Qtr. 1 credit
(1 H. Lec.)

Geriatrics provides the student with the knowledge, understanding and sensitivity needed to provide proper care to the elderly. Topics include history and demographics, the biology of aging, clinical presentation of illness among the elderly, and senescent cognitive impairment. Political and economic aspects of health care, including long term elder care, special problems encountered among elderly patients who are taking multiple medications, and ethical aspects of geriatric care are emphasized.

Literature Research II (#3722)

Winter Qtr. 2 credits

Each student is required to submit a paper on a topic related to clinical science or to some practical aspect of optometry. Each student works independently with the guidance of a faculty adviser. A computer search of the literature under the direction of library staff is required. **Literature Research II** prepares the students to contribute to the profession of optometry through publication in scientific and professional journals.

Adult Psychology (#3782)

Winter Qtr. 2 credits
(2 H. Lec.)

Adult Psychology presents those psychological problems attending adulthood and old age. Concepts and techniques are taught to enable the optometrist to effectively respond to patients with vision loss and to appropriately manage patients with psychosocial issues such as alcohol abuse, drug abuse, depression, suicidal tendencies, schizophrenia, organic brain syndrome, or Alzheimer's disease.

Public Health (#3820)

Spring Qtr. 1 credit
(1 H. Lec.)

Public Health explores the optometrists' role in the health care system and examines the economic, political, and medical forces that affect the health care policy. Governmental, professional, and independent agencies are described in terms of their respective roles. Health screening is discussed. Health care financing and governmental regulation of financing, insurance, and systems for health care delivery are considered. Quality assurance

Third Professional Year (OD III)

protocols for primary health care providers is emphasized.

Epidemiology and Statistics (#3830)
Spring Qtr. 2 credits
(2 H. Lec.)

Epidemiology and Statistics is designed to enable students to become effective clinicians and researchers by learning how associations are made between clinical observations/measurements and disease. The student is taught the statistical basis of epidemiology and develops an understanding of basic concepts of data description and analysis. The course is intended to make students more analytical in their attitudes about reports of new diagnostic tests or alternative treatments. Thus, they become better able to make good clinical judgments concerning the appropriateness of new diagnostic and therapeutic modalities.

Patient Psychology (#3783)
Spring Qtr. 1 credit
(0.8 H. Lec.; 0.2 H. Lab.)

Patient Psychology teaches methods for educating and counseling the optometric patient and his or her family. Advanced concepts and techniques for delivering "bad news" about vision are presented. The course is intended to enable the practitioner better to cope with difficult interactions with the patient or the patient's family. Oral and written communication skills are developed through videotaped role-playing and through written assignments directed toward patient education.

Department of Internal Clinics

Basic Clinical Practice I (#3911)
Summer Qtr. 3 credits
(2 weeks of clinic)

Basic Clinical Practice II (#3912)
Fall Qtr. 3 credits
(6 H. clinic/week)

Basic Clinical Practice III (#3913)
Winter Qtr. 3 credits
(6 H. clinic/week)

Basic Clinical Practice IV (#3914)
Spring Qtr. 3 credits
(6 H. clinic/week)

Contact Lens Practice (#3941)
Winter or Spring Qtr. 2 credits

Clinical training is carried out at in-house (college-operated) clinics during the third year. Individual student responsibility increases as clinical insight and proficiency develop throughout the third year. Nevertheless, changes in individual student prerogatives and responsibility occur only to a degree that is commensurate with demonstrated ability.

Fourth Professional Year (OD IV)

The fourth year of the Professional Curriculum consists of individually assigned clinical rotations. A minimum of thirty-six weeks of clinical experience is completed by each student.

The Clinical System

The clinical education of optometric students is one of the most important aspects of optometric education. The College utilizes over fifty clinical settings in the clinical training of its students. These sites are comprised of a variety of college-based (internal) and external affiliated programs.

Internal programs include:

The New England Eye Institute of The New England College of Optometry, Boston, MA

- Family Practice Service providing basic optometric examinations, ophthalmology consultation services, ocular photography services, and visual fields clinic
- Pediatrics and Vision Therapy Service
- Contact Lens Service
- Low Vision Rehabilitation Service
- Specialty Services: Electrodiagnosis, Color Vision Testing, VDT Clinic
- Dispensary Services

Mobile Eye Unit

VA Shelter for Homeless Veterans, Boston, MA

External affiliated centers include:

Aran & Holbrook Associates, North Miami Beach, FL

Barnet Omni Eye Center, Phoenix, AZ

Brighton Marine Public Health Center, Brighton, MA

Brooke Army Medical Center, San Antonio, TX

Capital Eye Consultants, Fairfax, VA
Cotting School for Handicapped Children, Lexington, MA

Dimock Community Health Center, Roxbury, MA

Dorchester House Multi-Service Center, Dorchester, MA

East Boston Neighborhood Health Center, East Boston, MA

Eastern Blind Rehabilitation Center, West Haven, CT

Eye Foundation of Utah, Murray, UT

Geiger Gibson Health Center, Boston, MA

Hadassah Hospital, Jerusalem, Israel

Indian Health Service Area Office, Albuquerque, NM

Joslin Diabetes Center/Beetham Eye Unit, Boston, MA

Kaiser Permanente, Washington, DC

Lahey Clinic Medical Center, Burlington, MA

Leahey Eye Clinic, Inc., Lowell, MA

Martha Eliot Health Center, Jamaica Plain, MA

McGowan Eye Center, Framingham, MA

Naval Hospital, Newport, RI

North End Community Health Center, Boston, MA

OMNI Eye Services of Atlanta, Atlanta, GA

OMNI Eye Services of Baltimore, Baltimore, MD

OMNI Eye Services of New Jersey, Iselin, NJ

Ophthalmology Eye Health Services, Weymouth, MA

Perkins School for the Blind, Watertown, MA

South Boston Community Health Center, South Boston, MA

South End Community Health Center, Boston, MA

University of Waterloo School of Optometry, Waterloo, Ontario, Canada

Uphams Corner Health Center, Dorchester, MA

Fourth Professional Year (OD IV)

VA Medical Center/Baltimore-Fort Howard,
Baltimore, MD

VA Hospital/Bedford (Edith Nourse Rogers
Memorial Hospital), Bedford, MA

VA Medical Center/Brockton, Brockton, MA

VA Medical Center/Fresno, Fresno, CA

VA Medical Center/Manchester,
Manchester, NH

VA Medical Center/Newington,
Newington, CT

VA Medical Center/Northampton,
Northampton, MA

VA Medical Center/Eastern Blind
Rehabilitation Center, West Haven, CT

VA Medical Center/West Roxbury,
West Roxbury, MA

VA Medical Center/Portland, Portland, OR

VA Medical Center/Providence,
Providence, RI

VA Medical Center/Vancouver,
Vancouver, WA

VA Outpatient Clinic/Eye Clinic, Boston, MA

Vision Institute of Canada, Toronto,
Ontario, Canada

Western Massachusetts State Hospital,
Westfield, MA



Special Academic Programs

Advanced Standing for Graduates from Foreign Optometry Schools

Individuals who have successfully completed study at a recognized foreign optometry school are eligible to apply for advanced standing in The New England College of Optometry's Doctor of Optometry program. Two years of postgraduate clinical experience are required for admission. The point at which the candidate enters the professional program will be determined on an individual basis, but in no instance will advanced placement result in less than two years of full-time study. Successful completion of the program may require achieving passing scores in selected sections of the National Board examinations.

The decision to accept candidates with advanced standing will rest with the College's Admissions Committee in cooperation with the Dean of Academic Affairs. Decisions will be dependent upon the ability of this group to evaluate the level of the optometric program completed by the candidate. Candidates should be prepared to provide documentation outlining the foreign optometry school's curriculum, grading standards, and level of competition. An assessment of clinical skills is also required.

The Accelerated O.D. Program

In the summer of 1972, The New England College of Optometry instituted a program which provides accelerated optometric education leading to the O.D. degree for qualified candidates with a doctorate degree in the sciences.

The program begins in early June and continues for eight consecutive quarters compared to the total of twelve quarters of enrollment for the four-year program.

Special Emphasis Program for Graduates of Foreign Optometry Schools

Any graduate of a foreign optometry school may apply for a special course of study. Special programs of study may be designed in one or more of the following areas: primary optometry, pediatric optometry, rehabilitative optometry, contact lenses, and ocular pathology. A Certificate of Advanced Study will be awarded upon successful completion of the program. This coursework may not be credited toward the O.D. degree, and the program does not prepare the student to sit for licensure in optometry. There is no specific curriculum in any of the special emphasis areas. A program will be arranged with each student based on availability of courses and individual interests. This is a non-degree program.

Postgraduate Clinical Programs

The College offers a number of post-doctoral clinical programs. These programs are for the graduate optometrist who desires more advanced training in a specialized area of optometry.

Residency programs are offered in conjunction with the Department of Veterans Affairs Medical Centers or Outpatient Clinics and interdisciplinary co-management centers throughout New England. Specialties offered include Hospital-Based and Rehabilitative Optometry, Secondary Ophthalmic Care, Advanced Diagnostics and Primary Care.

Fellowship programs are offered at the College and emphasize the areas of primary care optometry, clinical education, pediatrics, binocular vision, and contact lens practice. The Fellowship programs afford the opportunity to learn teaching skills in addition to the clinical education experience.

Special Academic Programs

Applicants for residency and fellowship positions should be graduates of a COE accredited school or college of optometry, have excellent scholastic records, strong clinical performance and an interest in optometric education.

Interested students or graduates should direct their inquiries for more information to the College's Director of Residencies and Fellowships.

Continuing Education

The College considers continuing education a major professional responsibility and is dedicated to serving the needs of optometric practitioners throughout their careers.

Courses, seminars, lectures, and hands-on

workshops are offered through the College's Office of Continuing Education to keep practitioners current with advances in the practice of optometry. A grand-rounds program is presented as an adjunct to certain lecture programs, giving the practitioner an opportunity to review the latest diagnostic techniques in an academic clinical setting. Programs are offered in New England and other parts of the country with the cooperation of local optometric societies and other colleges of optometry.

The New England College of Optometry is a recognized provider of continuing education by all states having education requirements and by the American Optometric Association.



III. ADMISSION TO THE COLLEGE



ADMISSION POLICIES

The New England College of Optometry seeks to admit students who are firmly committed to, and have sound aptitude for, improving the human condition through the profession and practice of optometry. Our admissions process is based upon a comparison of qualifications among all those who apply. We consider a variety of credentials, but it is clear that a careful evaluation of prior achievement and future promise are at the heart of the decision.

Among those factors which we examine critically are the following:

- grade point average
- Scholastic Aptitude Test scores
- OAT (Optometry Admissions Test) scores
- content of courses pursued in preoptometric college education
- extra-curricular activities

The ability of an individual to perform competently and maturely as a professional optometrist cannot be measured solely by quantified academic achievement. In an effort to ensure that students accepted at The New England College of Optometry will succeed both in their studies at the College and in the profession of optometry, consideration is given to those candidates who demonstrate a:

- commitment to learning
- high sense of social concern
- respect of human dignity
- strong motivation to become an optometrist
- responsibility and understanding of the social obligations of professionals

Therefore, beyond demonstrated academic performance, the admissions evaluation includes a careful reading of recommendations and essays submitted with the applica-

tion. A vital factor in the application process is the required admissions interview where an assessment is made of such qualities as:

- motivation
- personality
- the ability to articulate and communicate
- demeanor
- leadership potential

It is by careful examination of the above elements that The New England College of Optometry seeks to select for admission those individuals who have the highest potential for academic success in the optometric curriculum, and who can best represent the school and the profession as practicing optometrists.

Undergraduate Preparation

Applicants to the Doctor of Optometry program need to demonstrate at least three years of undergraduate preparation or the credit hour equivalent. Within this period of study the student should have completed the following specific number of courses:

	Semester	or	Quarter
Chemistry (with lab)	2	or	3
Organic Chemistry (with lab)	1	or	2
Biology (with lab)	2	or	3
Microbiology	1	or	2
Mathematics (incl. calculus)	2	or	3
Physics (with lab)	2	or	3
English	2	or	3
Psychology	1	or	2
Humanities	4	or	6
Social Sciences	4	or	6

One semester or two quarters of statistics are strongly recommended.

Students who have not earned a bachelors degree may be awarded the Bachelor of Science degree by the College, provided they have completed twenty semester hours of humanities, twenty semester hours of social sciences, and have met other requirements set forth by the College.

Eligible veterans are especially encouraged to apply for admission. The New England College of Optometry is approved for study under Public Law 348. Veterans covered by this law are expected to pay all charges in the same manner as non-veterans.

The Application Process

The College utilizes a “rolling” admissions policy, in that applications are considered continuously throughout the admissions period, roughly in the order of which they are completed. Using prior experience as a guide, comparative criteria for the new class are established early in the process. Once an application is complete and has been reviewed by the Admissions Committee, the applicant will either be invited for an interview at the College or advised of failure to meet the admissions criteria. In unusual circumstances, and with prior approval of the Director of Admissions, the personal interview can be arranged at an off-campus site. No application will be considered complete and no admissions decision will be made without the personal interview.

Following the interview, candidates will be informed within two or three weeks of the Admissions Committee decision. Once accepted, a \$500 non-refundable deposit will be due within 30 days.

Some applicants may be asked to accept waiting list status. Waiting list status is considered when the applicant applies late or demonstrates relative weakness in meeting some of the admissions criteria but presents qualifications which may allow possible acceptance later in the admissions period. Upon notification, candidates must signify acceptance of waiting list status if they wish to remain in active consideration. Should a waiting list candidate later be offered admission, the \$500 non-refundable deposit will be due within 14 days.

The Complete Application

Applications are accepted starting August 1 prior to the year of desired admission. There is no deadline for completing application files, but due to the rolling admissions process, those seriously desiring acceptance are urged to have their files completed by March 31 of the year of admission. Chance of admission is reduced after this date.

A complete application file consists of:

1. A completed application form along with the \$50 non-refundable application fee. The College's application has been designed to obtain as much background information about the candidate as possible. The candidate has little control over much of the data requested. Schools and colleges attended, courses taken, work history, and the like are fairly inflexible. However, several essays offer the opportunity to set his or her application apart from others. The candidate is urged to use this segment of the application to point out any trends in his or her undergraduate academic performance, to explain any scores which are not indicative of actual abilities, or to note experiences which will reflect knowledge about and commitment to the profession of optometry.
2. Complete *official* transcripts from all secondary schools and colleges attended. The candidate should be aware that an offer of admission will depend upon the successful completion of required courses. A final transcript will be needed prior to registration, in addition to transcripts initially submitted with the application.
3. Letters of Recommendation. Most colleges and universities have an interdisciplinary group of faculty whose purpose it is to advise students interested in health careers. This preprofessional evaluation committee prepares, upon

request, a composite list of recommendations, obtained from faculty members who can honestly appraise the candidate's academic abilities.

If such a service is not available from the undergraduate college, three letters from college professors or other appropriate sources are acceptable. Letters of recommendation should be solicited only from individuals who have had the opportunity to evaluate the candidate in his or her academic and personal activities. Candidates who have been out of school for a number of years may find it difficult to obtain letters of academic evaluation. In such cases, letters from employers or others who have worked closely with the candidate will be acceptable.

The Interview Process

Once the above materials have been submitted, promising applicants will be invited to the College for an interview. If such a visit is an extreme financial hardship for the candidate, a request for an off-campus interview may be submitted. We prefer all candidates visit the College for a personal interview. This affords the candidate the opportunity to appraise the College, its facilities, its environment, and its surroundings.

The candidate will receive notification of the Admissions Committee decision within two weeks after the date of the personal interview.

Securing Admission Upon Acceptance

As mentioned earlier, students offered acceptance will be asked to secure their seats with a \$500 non-refundable tuition deposit. This amount allows the College to determine which of those candidates are serious about attendance so that those on the waiting list may be offered an opportunity

to secure a place in the incoming class.

Candidates should also be advised that, following the acceptance of a seat in the entering class, they will be asked to pay their first quarter's tuition in full by June 30. The \$500 deposit will be credited towards tuition.

Additional Policies for Foreign Applicants to the Four Year O.D. Program

The New England College of Optometry invites applications from foreign students. Admission is dependent upon the competitiveness of the applicant's credentials. The standard application process should be used. Candidates will be required to have their transcripts from foreign schools and colleges evaluated by the World Education Service.

Foreign students entering the four-year program must meet the same admissions requirements including a minimum of three years of undergraduate preparation (90 semester credit hours, calculated in the usual or customary manner) at a college or university whose credentials are found acceptable by the Admissions Committee. Earned credits must include the same specific course prerequisites as resident applicants. Foreign students should understand that most applicants hold a bachelors degree. Applicants who have attended institutions where the teaching is not in English are required to take the TOEFL examination to demonstrate a working knowledge of English, and it is ordinarily expected that a minimum score of 550 will be achieved. The Test of Spoken English (TSE) may also be required. A minimum of four years of academic study at the New England College of Optometry is required to earn the O.D. degree.

Reapplicants

The College retains all application files for one year. Should a candidate wish to reapply, a reapplication form must be

submitted. There is a \$50 reapplication fee. All transcripts and recommendations submitted in the prior year will be used for the reapplication. The reapplicant must submit official transcripts for all college courses taken since the last application.

Transfer Students

When openings in advanced classes permit, the College accepts students currently enrolled in other accredited schools or colleges of optometry. Acceptance is contingent upon satisfactory completion of courses equivalent to those at The New England College of Optometry. Students requesting transfer must provide a personal statement with supporting documentation demonstrating a compelling need to transfer in order to complete their optometric education.

Transfer credits are accepted only after a review of the applicant's optometry school transcript by the Dean of Academic Affairs and the Dean of Student Affairs. Official acknowledgement of transfer and certification of good academic standing are required from the Dean of the optometry school from which the applicant seeks to transfer.

Additional Admissions Policies for the Accelerated O.D. Program

Requirements for admission are an earned doctorate in one of the biological, behavioral or physical sciences; a complete application; and a personal interview. The Optometry Admissions Test (OAT) is required of all applicants as part of the admissions application. Occasionally, additional study is recommended for those lacking background coursework in certain basic sciences.

In reviewing the credentials of applicants, the Admissions Committee examines the level of academic and professional achievement and motivation for an optometric career.

Additional Admissions Policies for the Advanced Standing Program for Graduates from Foreign Optometry Schools

Applicants to the Advanced Standing Program must have successfully completed study at a recognized foreign optometry school, and have at least two years of postgraduate clinical experience. Applicants who have attended institutions where the teaching is not in English are required to take the TOEFL examination to demonstrate a working knowledge of English, and it is ordinarily expected that a minimum score of 550 will be achieved. The Test of Spoken English (TSE) may also be required. A minimum of two years of full-time study at The New England College of Optometry is required to earn the O.D. degree.

Early Admissions and Joint B.S./O.D. Degree Programs

The New England College of Optometry has affiliations with undergraduate institutions in New England for the awarding of a joint Bachelor of Science degree. The New England College of Optometry offers this program in conjunction with Assumption College in Worcester, University of Hartford, Providence College, St. Joseph's in Vermont, and Wheaton College.

Students entering this joint program may receive a conditional acceptance into the College as they begin their first year of undergraduate studies. Upon completion of three years of specified coursework (providing predetermined grade point average and OAT scores are met), these students will enroll at The New England College of Optometry. After the second year of professional study, the student will earn a Bachelor of Science degree from his or her undergraduate institution. After completion of the fourth year of professional study, the student will earn the Doctor of Optometry

degree from The New England College of Optometry.

This program encourages motivated students to design a challenging undergraduate curriculum which allows them to set specific goals.

Candidates interested in pursuing the joint B.S./O.D. degree program should contact the Office of Academic Affairs at their undergraduate school to see if they have such an affiliation with The New England College of Optometry.

Program for Minorities and Disadvantaged Students

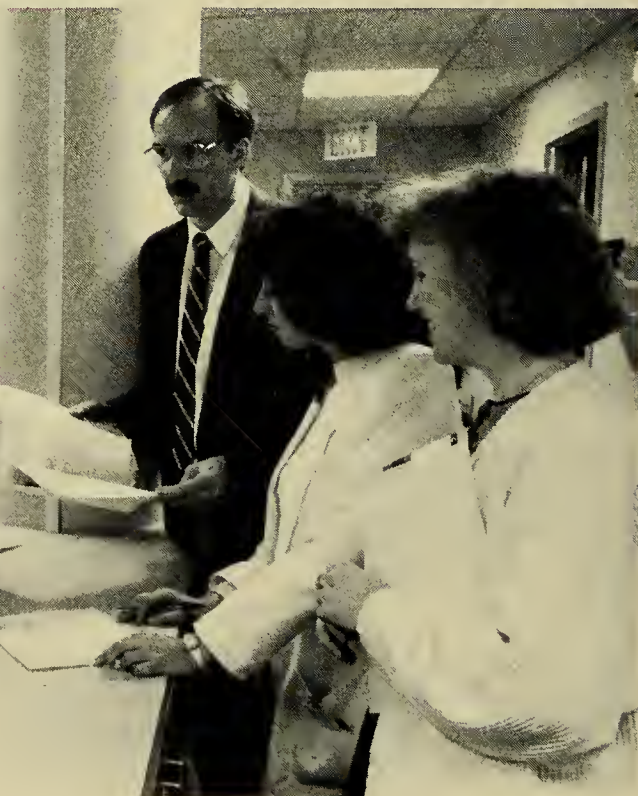
The Optometric Career Access Program (OCAP) is a comprehensive optometric summer program. It is aimed at increasing the number of minority and disadvantaged students who apply, enter, and graduate from The New England College of Optometry.

OCAP consists of two summer programs, **Operation Access** and **Operation Success**, which provide assistance in sharpening study and research skills.

Operation Access - A four-week program during June and July offers eighteen college sophomores, juniors, and seniors a series of mini-courses, seminars, and lectures. Students interested in pursuing a degree in optometry participate in hands-on optometric patient care at affiliated clinics within the Boston area.

Operation Success - A six-week program throughout July and August designed to assist twelve college seniors just prior to their entry into The New England College of Optometry. Operation Success helps further develop the knowledge base necessary to grasp the first-year optometric curriculum. This program places a challenging emphasis on mathematics and optics.

The Optometric Career Access Program is offered at The New England College of Optometry at no cost to the student. For further information, contact the OCAP Office at The New England College of Optometry.



IV. TUITION, FEES & FINANCIAL AID



TUITION

Tuition is based on the College's total cost of providing optometric education less income from all other sources and is assessed quarterly. For 1992-93, the tuition at The New England College of Optometry is \$5,600 per quarter. For the 1992-93 academic year, annual tuition in the four year professional program or the Advanced Standing International Program is \$16,800, and for the Accelerated O.D. Program the tuition is \$22,400. Tuition for part-time study is calculated at \$350 per quarter credit hour.

The tuition and fees for the 1993-94 academic year will be established by the Board of Trustees in May 1993.

State Contract Support

The actual tuition paid by entering students is the current tuition less any directly applicable financial support. Some states in the Northeast provide tuition assistance for residents attending The New England College of Optometry. State contract support varies, but most support occurs in the form of non-repayable grants which may include a post-graduation service commitment. The value of these contracts varies, but on average amounts to a tuition reduction of \$3,500 per year. Applicants should contact the Admissions Office to find out if their state has a contract arrangement with the College.

FEES

Fees include the non-refundable application fee of \$50 (to be submitted with the application), the non-refundable tuition deposit of \$500 (due within 30 days after admission), and the annual activity fee of \$75 (determined annually by the Student Council).

Payment Policy

All tuition and fees are due and payable on or before the first day of classes of each quarter, except those of incoming students which are due by July 1 of the year of entry. Incoming students unable to meet the tuition date should contact the Dean of Student Affairs prior to July 1 to make alternative payment arrangements. No continuing students may complete registration or attend classes without having paid all charges in full or having made appropriate arrangements to do so with the Director of Business and Finance.

Students should anticipate additional expenses of \$5000 for texts and equipment during the first three years.

The College reserves the right to make such changes in tuition and fees which may be deemed necessary by the Board of Trustees before the beginning of any quarter.

Refund Policy

Tuition and fees are refunded to the student who withdraws or is dismissed from the College in accordance with the following timetable:

- 100% refund (less \$500 deposit for entering students) if withdrawal is prior to the first day of the academic period.
- 75% refund if withdrawal is during the first two weeks of the academic period.
- 50% refund if withdrawal is between the second and fourth weeks of the academic period.
- 25% refund if withdrawal is between the fourth and eighth weeks of the academic period.

Student Health Insurance

As part of the Commonwealth of Massachusetts Program of Universal Health Care, each institution of higher education in the Commonwealth is required by law to ensure that its full-time and $\frac{3}{4}$ -time students are enrolled in a qualified student health insurance plan.

In order to comply with this mandate, arrangements have been made for The New England College of Optometry students to be offered a comprehensive benefit program. Our student health insurance program is underwritten by the Gerber Life Insurance Company.

Students may waive participation in NEWENCO's health insurance program if they already have appropriate coverage. A waiver form must be filed with the College prior to the beginning of classes. If a waiver form is not filed or if it is submitted late, the student will be enrolled in the student insurance program and billed accordingly.

College Dormitory Fees

The College operates a dormitory for use by students enrolled at the College. A limited number of single and double occupancy rooms are available. The rental cost varies depending on the accommodations and ranges from \$1185 to \$1400 per quarter for the 1992-93 academic year.

FINANCIAL AID

The financing of optometric education is growing more complex. Educational programs in the health professions are expensive, but at the same time represent an investment in a secure career. Tuition and fees for students in the College's four year program are \$16,800 in 1992-93, and living expenses, books and equipment bring the annual cost of education to approximately \$28,000. Because expenses often exceed the resources available to students, these costs are likely to result in reliance on student loan sources and other financial aid programs. It is, therefore, important that you understand the financial commitment before you begin graduate/professional education.

The College administers financial aid funds from a variety of sources, federal, state,

institutional and private, to assist students in meeting their financial obligations.

A financial aid packet, containing the Financial Aid Handbook and all forms necessary to apply for financial aid, is mailed in February to all applicants accepted into the entering class. Parents' financial information is required of all applicants for the federal loan programs administered by the College (the Perkins and Health Professions Loan Programs). A new financial aid application is required each academic year.

Eligibility for federal student financial aid is based on your financial need which is defined as the difference between the standard student budget calculated by the College and your anticipated resources, as measured by the Graduate and Professional Schools Financial Aid Service (GAPSFAS). In addition, you must be a citizen, national or permanent resident of the United States; enrolled or accepted for full-time study; and making satisfactory academic progress. You must have registered for the draft if required to do so, and must not owe a refund or be in default on any financial aid previously received.

Federal and state financial aid programs change frequently. While the information presented here is accurate as of the date of publication, the most current and up-to-date information may be obtained from the College's Financial Aid Office.

The following is a listing of sources of financial aid for students attending NEWENCO.

Perkins Loan Program

Amount: Varies according to funding available and students' needs (\$18,000 cumulative total).

Conditions: Eligibility based on financial need.

Repayment: Ten years.

Interest: 5%, interest-free until six months (or nine months for new borrowers after July 1, 1987) after graduation.

Contact: Financial Aid Office.

Health Professions Loan Program

Amount: Varies according to funding available and students' needs.

Conditions: Eligibility based on financial need.

Repayment: Ten years.

Interest: 5%, interest-free until twelve months after graduation.

Contact: Financial Aid Office.

Robert T. Stafford Student Loan Program

formerly Guaranteed Student Loan Program

Amount: \$7,500 maximum per year (\$54,750 cumulative total).

Conditions: Eligibility based on financial need.

Repayment: Ten years.

Interest: 8% (or 9%, depending on previous loans), interest-free until six months after graduation.

Contact: Any participating lender or the Financial Aid Office.

Supplemental Loans for Students Program

Amount: \$4,000.

Conditions: None.

Repayment: Ten years; repayment of principal (and often interest) can be deferred until after graduation.

Interest: Varies annually but no higher than 12%.

Contact: Any participating lender or the Financial Aid Office.

Health Education Assistance Loan Program

Amount: \$20,000 maximum per year (\$80,000 cumulative total).

Conditions: Eligibility based on financial need.

Repayment: Ten to twenty-five years, depending on amount borrowed; repayment of principal and interest can be deferred until after graduation.

Interest: Varies quarterly.

Contact: Financial Aid Office.

NEWENCO Fund for Education Loans

Amount: \$1,500.

Conditions: Economically disadvantaged or minority students with financial need.

Repayment: Five years, interest-free until twelve months after graduation.

Interest: 5%.

Contact: Financial Aid Office.

Professional Education Plan (PEP)

Amount: \$20,000.

Conditions: Credit worthiness.

Repayment: Twenty years, repayment of principal and interest can be deferred until after graduation.

Interest: Varies; tied to lender's prime rate.

Contact: Financial Aid Office.

College Work-Study Program

Purpose: To provide students with the opportunity to earn supplemental income through part-time work at the College.

Conditions: Eligibility based on financial need. Other restrictions apply.

Wage Rates: Between \$6.50 and \$10.00 per hour; students are paid biweekly.

Contact: Financial Aid Office.

Joseph M. Duffy, Frederick E. Farnum, Otto Hochstadt and Lynwood W. Storer Fellowship

NEWENCO Scholarship for Disadvantaged Students

Purpose: To provide scholarship assistance to disadvantaged students in the four-year program.

Amount: Varies.

Eligibility: Awarded to a limited number of disadvantaged students registered in the four-year program who have determined financial need.

Contact: Dean of Student Affairs, Office of Admissions.

George Comstock Scholarship

Sponsored by the Connecticut Optometric Society

Amount: Approximately \$500, but amount varies; usually three to five awards.

Eligibility: Connecticut resident enrolled in optometry school. Good character, scholastic achievement and financial need.

Applications: Available in the spring.

Deadline is June 1.

Contact: Dr. Charles J. Connors, 18 Water Street, Ansonia, CT 06401.

Richard C. Dexter Scholarship

Sponsored by the New Hampshire Optometric Association.

Amount: May vary from year to year, up to \$1,000.

Eligibility: New Hampshire resident. Full-time student with demonstrated financial need.

Contact: Dr. Norman Michaud, 89 South Main Street, Goffstown, NH 03045.

Dr. Gary Gross Scholarship

Amount: \$1,000. Two awards nationwide.

Eligibility: Fourth year student who is a resident of Illinois, Iowa, Michigan, Minnesota, Nebraska, North or South Dakota, or Wisconsin. Selection of NEWENCO's nominee is made by the Financial Aid Committee on the basis of scholarship and leadership. The nominee must submit an essay to the American Optometric Foundation; final award is made by the Dr. Gary Gross Scholarship Selection Committee.

Applications: Available in the fall from the Financial Aid Office.

Dr. Dorothy Weitzner Kornblut Scholarship

Sponsored by the Bridgeport Area Foundation, Inc., assisted by the Connecticut Optometric Society

Amount: \$300 - \$700. One or more awards.

Eligibility: Female optometry student.

Preference given to a resident of Fairfield County, State of Connecticut, and New England (in that order). Award based on character, scholarship and financial need.

Applications: Available in the spring.

Deadline is June 1.

Contact: Dr. Charles J. Connors, 18 Water Street, Ansonia, CT 06401.

O. P. "PETE" Lyman, Jr. Scholarship

Amount: \$500. One award nationwide.

Eligibility: Currently enrolled optometry student who is a resident of South Carolina. Selection of NEWENCO's nominee is made by the Financial Aid Committee on the basis of financial need and academic achievement.

Applications: Available in the fall from the Financial Aid Office.

Massachusetts Society of Optometrists

Amount: Usually two awards of \$750, but may vary.

Eligibility: Resident of Massachusetts attending NEWENCO. Promise of achievement in the study of optometry, and financial need.

Applications: Available in the fall from the Financial Aid Office. October 31 deadline.

Dr. Leslie Mintz Scholarship Award

Sponsored by the New Jersey Optometric Association

Amount: \$500 - \$1,000. Amount and number of awards vary.

Eligibility: New Jersey resident who is a full-time optometry student with demonstrated financial need.

Applications: Available in the late fall from the Financial Aid Office. Deadline is usually December 1.

New England Optical Society Scholarship and Merit Award

Amount: Varies annually.

Eligibility: Undergraduate or graduate student in the New England area who has

demonstrated strong interest in any area of theoretical or applied optics. The awards will be based on academic excellence as well as on concrete demonstration of the students' accomplishments and interests in the field of optics. These awards will be paid only to students at institutions located within the six New England states.

Applications: Available in the winter from the Financial Aid Office.

NEWENCO Scholars Program

Amount: \$750. One award in the OD-1, OD-2, and OD-3 classes.

Conditions: OD-1 and OD-3: outstanding papers submitted to fulfill OD-1 and OD-3 literature research courses. OD-2: superior clinical competence at the OD-2 level. Selection of recipients is made by ad hoc faculty committees.

Petry-Lomb Scholarship

Sponsored by the Rochester (New York) Optometric Society and its Auxiliary

Amount: \$1,000.

Eligibility: New York state resident. Preference given to students from Monroe, Wayne, Livingston and Orleans Counties. Must be a student in good academic standing in an accredited optometry school.

Contact: William J. Lapple, O.D., 8663 East Main Street, Leroy, NY 14482.

Hilda L. Rand Fund

Sponsored by the Women's Auxiliary of the Maine Optometric Association

Amount: \$500.

Eligibility: Maine resident with good character, scholastic achievement and financial need.

Applications: Available in January. Deadline is April 1.

Contact: Mrs. Walter C. Brooks, 56 Madison Street, Bangor, ME 04401.

Veterans Administration

Contact: Students eligible for education benefits through the Veterans Administration should contact their local VA Office or the VA Regional Office, JFK Federal Building, Boston, MA 02203. At NEWENCO, contact the Financial Aid Office.

The Financial Aid Office distributes applications in the fall to all enrolled students for the following scholarships.

Alumni Association Scholarship

Amount: Eight awards of \$500 each.

Eligibility: Any student in good standing and with demonstrated financial need. Recipients are selected by a committee designated by the Alumni Association.

Association of Schools and Colleges of Optometry Scholarship

Amount: Varies.

Eligibility: Students in the 2nd, 3rd, or 4th year. Good academic standing with demonstrated financial need; active participation in student activities. Selection made by the Financial Aid Committee from nominees selected by a student/faculty committee.

William C. Barrett Memorial Scholarship for Clinical Excellence

Amount: Amount awarded annually will depend on the fund's earnings; the scholarship award will be used to reduce the outstanding principal on the recipient's most costly student loan.

Eligibility: Fourth year student with outstanding clinical skills and documented financial need. Priority given to students meeting these criteria who served in clinical rotations at the Omni Centers in Atlanta, Georgia and Phoenix, Arizona. Selection made by the Financial Aid Committee based on the Omni Centers' nominations.

Class of '69 Scholarship

Amount: \$500.

Eligibility: Fourth year student, determined financial need, and outstanding clinical performance. Recipient is selected by the Awards and Scholarship Committee during the spring quarter.

Corning Scholarship Program

Funded by an annual grant to the American Optometric Foundation by the Corning Glass Works Foundation. Provides one scholarship to a student pursuing the O.D. degree at each of the schools of optometry.

Amount: \$500.

Eligibility: Must be in the 2nd, 3rd, 4th or POD program. Minimum GPA of 3.0. Recipient is selected by the Financial Aid Committee based on academic performance, financial need, and the potential for becoming an active and concerned member of the alumni body of the College and the optometric profession.

Israel and Sylvia Grossman Scholarship

Amount: \$1,000.

Eligibility: Student in the 2nd, 3rd, or 4th year. Demonstrated academic ability and financial need. Potential for becoming an active and concerned member of the alumni body of the College and the optometric profession. Recipient is selected by the Financial Aid Committee and the Awards and Scholarship Committee.

Monthe N. Kofos Scholarship

Amount: \$1,000; two scholarships.

Eligibility: Student in the 2nd, 3rd, or 4th year. Demonstrated academic ability and financial need. Potential for becoming an active and concerned member of the alumni body of the College and the optometric profession. Recipient is selected by the Financial Aid Committee and the Awards and Scholarship Committee.



Carroll Martus Scholarship

Amount: \$500.

Description: To recognize achievement of a student in the fourth year program. Selection will be made by an institutional committee.

Harry and Sara Pildes Scholarship

Amount: \$1,000.

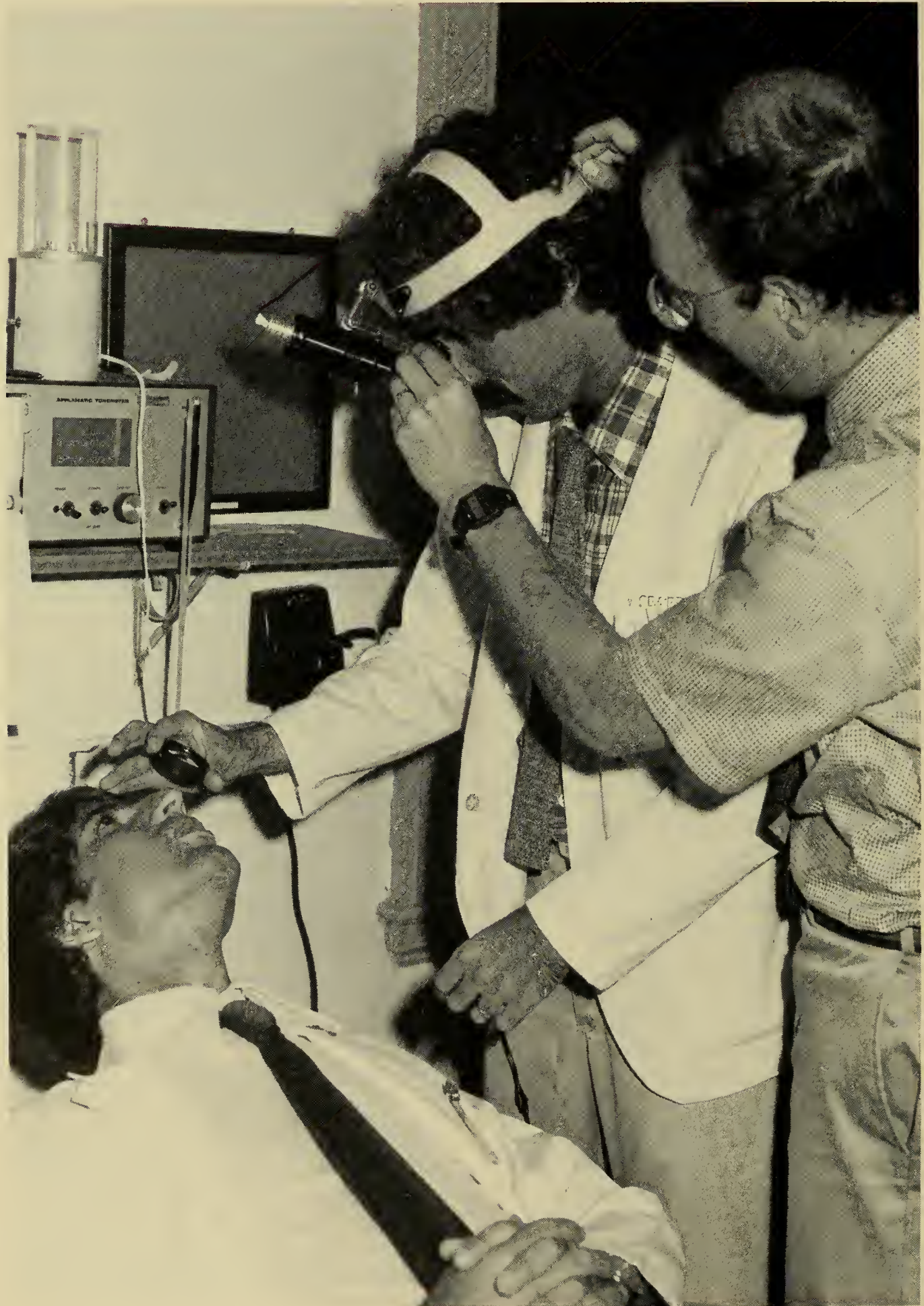
Eligibility: Student in the 1st year of the 4-year program. Demonstrated academic ability and financial need. Potential for becoming an active and concerned member of the alumni body of the College and the optometric profession. Recipient is selected by an OD-1 faculty committee.

Silhouette Optical Grant

Amount: Varies annually.

Eligibility: Third year student. Demonstrated academic ability and financial need. Potential for becoming an active and concerned member of the alumni body of the College and the optometric profession. Recipient is selected by the Financial Aid Committee and the Awards and Scholarship Committee.

V. DEGREE REQUIREMENTS & ACADEMIC POLICIES



DEGREE REQUIREMENTS

Students in the four-year professional program may earn one or both of the following degrees:

Doctor of Optometry Degree (O.D.)

The Doctor of Optometry is a professional degree and is a prerequisite for licensure eligibility in the United States. Award of the degree is made by the Board of Trustees upon recommendation of the faculty following the satisfactory completion of the professional curriculum in optometry and fulfillment of all obligations to the College.

To qualify for the degree, the student must spend at least two academic years in residence at The New England College of Optometry and hold a grade point average not below 2.00 at the time of graduation. Further, no student can graduate with an outstanding grade of "F," "Remedial," or "Incomplete" on his or her record.

Bachelor of Science Degree (B.S.) in Optometry

Students who have not received a bachelors degree prior to enrolling in the four-year professional curriculum may receive the Bachelor of Science degree in Optometry. In order to be eligible for this degree, the student must satisfy the following requirements:

1. Hold no prior bachelors degree.
2. Have successfully completed at least twenty semester hours of Social Science and twenty semester hours of Humanities at the undergraduate level.
3. Have successfully completed two years of study at The New England College of Optometry.
4. Have not yet received the Doctor of Optometry degree.

The student must submit a written request to the Registrar for the Bachelor of Science degree at the beginning of the second year of study. Because a student is not eligible for the B.S. degree after graduation from the College, any deficiencies in the undergraduate course requirements must be completed prior to receipt of the Doctor of Optometry degree.

Coursework generally falls under the headings of Humanities and Social Sciences according to the following table:

Humanities

- Language: ancient, modern
- Literature: ancient, modern, theory
- Fine Arts
- Music
- Drama
- Philosophy*
- Philosophy of History
- Historical Biography
- Theology
- History of Philosophy of Science*

Social Sciences

- Psychology
- Anthropology
- History of Civilization
- Geography
- Political Science
- Economics
- Sociology
- Criminology
- Jurisprudence
- Ethnology
- Demography
- Law
- Statistics
- History*

*Primarily categorized as shown, but may be classified otherwise, depending on the undergraduate college. Check with your undergraduate advisor.

Grading and Academic Policies

The following section provides an overview of the grading and academic policies maintained by The New England College of Optometry. It is not inclusive or descriptive of all policies potentially affecting students enrolled at the College. Full documentation of grading and academic policies is contained in the Student Handbook which is provided to all students at the time of initial registration.

All matters concerning grades and academic policies will be handled by the College’s Student Affairs Committee (SAC). This group consists of five members of the faculty who are elected by the faculty; the Registrar, the Dean of Student Affairs, and the Director of Financial Aid, who serve as ex officio members; and two voting student members who are elected by the Student Council.

Requirements for Academic Promotion

Students are required to meet minimum academic standards in order to advance to the next professional year of study. The academic program is graded on a 4 point scale: A=4.00; B=3.00; C=2.00; D=1.00; F=0.00. To progress into the second and third professional years of study, the student must maintain a cumulative grade-point average of at least 2.00. To progress into the fourth professional year, the student must have 2.00 cumulative GPA, and no grades of Incomplete, Remedial, or F.

Students who do not meet the above requirements may satisfy them by: 1) repeating the entire academic year, or 2) by taking the appropriate courses, if offered, during the summer quarter. The institution accepts no obligation to re-offer courses during the summer for students who have received failing grades. Students will only be offered the above options upon recommendation of the Student Affairs Committee and/or the Dean of Academic Affairs.

Academic Evaluation Protocol

Action regarding academic warning or academic probation is automatic when a student fails to meet the institution’s academic standards. This action will be taken by the Office of the Registrar upon finalization of grades at the end of each grading period according to the following standards:

Academic Warning	Cumulative GPA
First-Year Students	2.00 - 2.20
Second-Year Students	2.00 - 2.20
Third-Year Students	2.00 - 2.20

A designation of academic warning will be removed when the student’s cumulative GPA is 2.20 or higher.

Academic Probation

A designation of academic probation indicates that a student is below the minimum grade point average of 2.00 required for advancement to the next professional year or graduation, or who has earned two grades of F in one quarter. Academic probation is removed when the student’s cumulative GPA is 2.00 or above.

Dismissal

The following situations will result in dismissal for academic reasons:

- 1. A student is on probation for two consecutive quarters .
- 2. A student in the four year program receives a quarterly GPA of 1.50 or below. A student in the Advanced Standing or Accelerated Program receives a quarterly GPA of 1.60 or below.
- 3. A grade of F is earned in a course taken to resolve a previous grade of F.
- 4. A grade of F is earned in a clinical course.
- 5. The requirements for advancement are not met.

The Student Affairs Committee will consider actions for dismissal according to procedures outlined in the Student Handbook.

Clinical Evaluation Protocol

All clinical courses are graded on a Pass/Fail basis according to the following categories:

Honors: outstanding level of performance.

Pass: adequate performance.

Remedial: marginally inadequate performance.

Failure: inadequate performance.

Incomplete: adequate performance; requirements not complete.

Clinical grades are based on the student's performance relative to the established objectives for the course and reflect the student's knowledge, analytical ability, technical skill, and professionalism.

Withdrawal from the College or from a Course

Any student may withdraw from the College by informing the Registrar and the Dean of Student Affairs in writing at least two weeks prior to the first day of final exam week. A student wishing to apply for readmission after withdrawal must petition the Student Affairs Committee and the Dean of Academic Affairs. Withdrawal in good academic standing does not guarantee re-admission.

Students are not normally allowed to withdraw from individual courses. In situations of unusual circumstances, a student may submit a written petition to the Dean of Academic Affairs no later than two weeks prior to the final examination. Permission to withdraw from the course will only be given by the Dean of Academic Affairs after consultation with the course instructor. If a student withdraws from a course, a grade of W will be transcribed. If a student withdraws from a course without permission, as evidenced by non-attendance and failure to complete assignments and take examinations, a grade of F will be transcribed.

Leave of Absence

A student may request a leave of absence from the College. To be eligible for a leave of absence the student must be in good academic standing. The student must submit a request for a leave of absence in writing to the Dean of Academic Affairs and a copy to the Chair of the Student Affairs Committee 30 days in advance of the starting date for the leave. This requirement will only be waived in the most extraordinary of circumstances.

If the student requesting a leave of absence is a fourth year student, granting of the leave is dependent upon consultation between the Dean of Academic Affairs and those clinic rotations to which the student has been assigned. This limitation and provision is to insure that affiliated clinic needs are met.

The Dean of Academic Affairs will inform the student in writing as to whether the leave of absence has been approved and any terms relative to the College.

A leave of absence is governed by the following:

- A leave of absence may not be granted before all tuition and fees are paid in full and the student has met with the Financial Aid Office to discuss the effect of the leave upon financial aid arrangements.
- A leave of absence may not be extended beyond one year.
- The duration of the leave of absence may be affected by curriculum organization. Date of re-entry will be determined by the Dean of Academic Affairs.
- Any student who returns to the College after a leave of absence may be required to take additional course work due to curriculum changes. Students taking a leave of absence do so with the understanding that course sequencing may change during the leave of absence.

- A student returning from a leave of absence may be required to pass a clinical proficiency exam prior to assignment to clinical patient care.
- A student who is granted a leave of absence must have an exit interview with the Financial Aid Office.

Protocol for Professional Conduct

The College reserves the right to terminate the enrollment of any student at any time for whatever the College faculty and administration consider to be good and sufficient reason, such as unprofessional conduct. Unprofessional conduct may include, but is not limited to, cheating, plagiarism, unexcused absences from assignments, falsifying clinical records, and abusive behavior. Any student who organizes or participates in harassment or hazing shall be considered to have behaved unprofessionally.

Grievance Procedure

It is believed that sound educational policies in conjunction with a practical affirmative action program are the most effective means of ensuring fair and equitable educational opportunities. However, it is also recognized that changing institutional and individual needs, the human element in relations among students, faculty and administration, and the complexities of personal interaction within the educational environment require mechanisms whereby students can seek redress or adjustment of considerations that affect them.

Any student who feels he or she has been discriminated against on the basis of race, color, sex, or national origin, should detail the grievance in writing to the Dean of Student Affairs. If the Dean of Student Affairs is unable to resolve the issue, the Dean will appoint a Grievance Committee.

Problems resulting from misunderstanding or apparent inconsistencies in issues of academic evaluation, performance or

misconduct should be brought to the attention of the Student Affairs Committee in writing.

A complete explanation of the College's grievance procedure is found in the Student Handbook.

Other College Publications

Students should review all College publications including the Student Handbook, clinical education manuals, and Financial Aid Handbook for other College policies and procedures.

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VI. STUDENT SERVICES & ACTIVITIES



STUDENT SERVICES

Tutorial Services

The College provides a peer tutoring system available to all students at no cost. The goal of the tutorial program is to provide students with the opportunity to work with successful upperclass students on both material clarification and study skills. These goals are accomplished by providing both group and individual tutorial sessions. Group sessions are provided in conjunction with several first year courses. Requests for individual tutoring are subject to review by the Director of the program prior to approval.

Academic Counseling

The New England College of Optometry offers counseling for academic issues through the Director of Student Support Services. Any concerns or questions regarding academic standards, grading policy or process should be addressed to this office.

Counseling Service

The goal of the Counseling Service is to help students cope with the many stresses of acquiring a professional education. This goal is accomplished in two ways: first, direct services to students (and family members) and second, advising the administration and faculty on ways to improve the emotional climate at NEWENCO.

The Counseling Service provides:

- 24 hour a day, on call emergency service
- information and referral services to students and their family members
- short term diagnostic and counseling services (when students require long term help, referrals are made to external sources)
- consultation and linkage services to practitioners serving individual students

(when a student is receiving care, the Counseling Service can play a role in assisting the student in his/her academic program.)

Drug and Alcohol Abuse Policy

The New England College of Optometry maintains a Drug and Alcohol Abuse Policy, in compliance with the the Drug Free Schools and Communities Act Amendment of 1989. The purpose of the policy is to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol, and the abuse of alcohol by employees.

- The College strictly prohibits on its premises or at all College sponsored functions off-campus: (a) the possession, use, or distribution of illicit drugs, including the inappropriate possession, use, or distribution of pharmaceutical drugs; (b) the possession or consumption of alcohol by or distribution to persons under 21 years of age.
- The College reserves the right to restrict the use, distribution, or possession of alcohol on College premises or at any College sponsored functions by persons 21 years old or older. The College also reserves the right to request documentation of age before serving alcohol.
- Functions planned for or by employees or students at which alcohol will be served must be pre-approved by the Director of Administration.
- At all College functions, non-alcoholic beverages must be provided and located in a visible area separate from alcoholic beverages.
- Food must always be available at all College functions where alcohol is served.
- The College expects employees and students to create and maintain a professional and educational environment that is safe and healthy and encourages

STUDENT SERVICES & ACTIVITIES

responsible conduct. Furthermore, the College holds employees and students responsible for the consequences of using or distributing illicit drugs, and serving or consuming alcohol.

For additional information regarding disciplinary policies, legal sanctions for violating drug and alcohol laws, health risks, and counseling and treatment services, refer to the Student Handbook.

Peer Advising Program

Second year students have been appointed as Peer Advisors for incoming first year students. The goal of this program is to help with orientation to NEWENCO and to provide assistance whenever needed throughout the first year.

Small groups of OD-I's will be assigned to each Peer Advisor. These groups will meet regularly. This program is administered as a part of Student Support Services; advisors are paid for their services.

STUDENT ACTIVITIES

Student Council

The Student Council is organized to govern the internal affairs of the NEWENCO student body. The Council consists of twenty-five voting members: four officers, five representatives from each class in the four year program, and one representative each from the students in the accelerated two year program and in the advanced standing program. One representative from AOSA also attends the Student Council meetings and is entitled to vote. Council meetings are open to the entire student body.

There are two main areas of responsibility for the Student Council. The first is to process, manage, and allocate student activity fees. Use of these funds includes the sponsorship of various social activities and clubs, including picnics, parties, cruises,

and sports events; funding of the annual dinner dance, the Eyeball; funding of the annual yearbook; and funding of AOSA activities and trips.

The second responsibility is to promote mutual understanding and respect among students, faculty, and administration. As part of this responsibility, the Student Council members participate on the Student Affairs Committee, Long Range Planning Committee, Admissions Committee, Financial Aid Committee, and Curriculum Committee. The President of the Student Council is a voting member of the NEWENCO Board of Trustees and serves as a member of the Executive Council of the NEWENCO Alumni Association.

AOSA, NOSA & VOSH

The American Optometric Student Association (AOSA)

Every NEWENCO student becomes a member of the American Optometric Student Association (AOSA) when his or her student activity fee is paid. AOSA members receive t-shirts, clipboards, nearpoint cards, *Foresight* (AOSA's newspaper), and other benefits throughout their years at NEWENCO. AOSA student liaisons and committee chairpersons provide input into a variety of organizations including the National Board of Examiners in Optometry (NBEO), Association of Schools and Colleges of Optometry (ASCO), and various sections of the American Optometric Association (AOA). Local AOSA activities at NEWENCO include lunchtime seminars, special speakers and films, and panel discussions on optometric issues. In addition, the AOSA holds a national Congress every year at various sites throughout North America. These congresses provide educational classes and an opportunity to meet fellow students from other schools and colleges of optometry.

National Optometric Student Association (NOSA)

NOSA is the student branch of the National Optometric Association (NOA), a professional association of predominantly minority optometrists. NOA's primary objective is the delivery of vision/health care to the minority community.

One of the goals of the NOA is to actively recruit minority students into schools and colleges of optometry and to provide assistance to new graduates, as well as to provide minority optometrists with practice enhancement and updating of optometric knowledge, skills and professional practice, placement, and procurement of financial aid.

Of the 26,000 practicing optometrists nationwide, only about 400 are minorities. Vision-related problems among the poor and minority groups are eight times more prevalent than for the rest of the nation. There are not enough vision-care practitioners to provide proper care for this segment of the

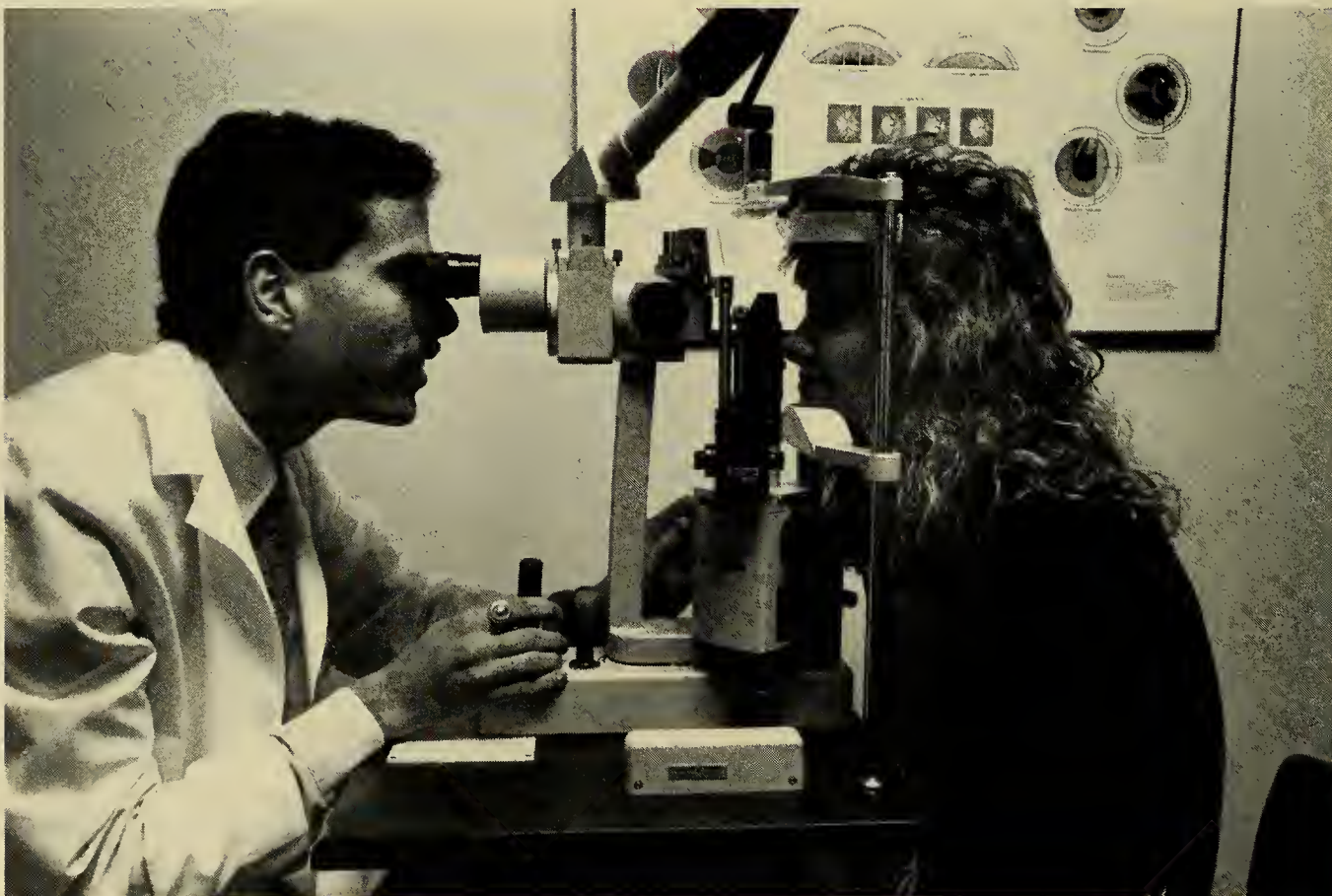
population. NOA addresses this problem, and since its founding in 1969, the number of minority optometrists has nearly tripled.

Volunteer Optometrists in Service to Humanity (VOSH)

The NEWENCO Chapter of VOSH, a national organization, sends interested students to countries lacking optometric care for an intensive three or four day vision testing program. Students examine the eyes of local residents and dispense badly needed eyeglasses. Any first, second, or third year students who donate their time to VOSH become eligible to join a group in a Latin American optometric expedition. VOSH functions independently of the College.

Yearbook

Reflections is the published account of a class's four years at NEWENCO. The publication of the student yearbook is the full responsibility of the students and associated organizations.



VII. TRUSTEES, ADMINISTRATION & FACULTY



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Dean of Student Affairs:

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Head Librarian:

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Director of Public Relations:

Elizabeth A LaBatte, B.A.

Director of Minority Student Services:

W. Robert Miller, B.A.

Director of Financial Aid:

Mary Jane Noel

Controller:

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Director of Personnel:

Ellen C. Snowdon, B.A., M.Ed.

Registrar:

Glenda Underwood, B.A.

Director of Purchasing:

Tara M. Zidonik, B.A.

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Morris Applebaum, *Professor of Optometry and Dean of Academic Affairs*;

O.D., Los Angeles College of Optometry

John E. Asarkof, *Professor of Optometry*;

O.D., Massachusetts College of Optometry

Susan Baylus, *Instructor of Optometry*;

O.D., The New England College of Optometry

Sandra Bedard, *Instructor of Optometry*;

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Ed.M., Harvard University

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Ed.M., Harvard University

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M.P.H. Columbia University School of
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Gary Moss, *Assistant Professor of Optometry*; B.A., O.D.

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Antonia M. Orfield, *Assistant Professor of Optometry*; B.A., M.A.T., O.D.

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Donee Wong, *Assistant Professor of Optometry*; B.A., O.D.

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George J. Annas, A.B., J.D., M.P.H.

Bruce Moore, B.A., O.D.

Henry Mulcahy, B.S., M.S., M.S., Sc.D.

Eli Peli, O.D., M.E.E.

John Stoeckle, B.S., M.D.



SUMMER QUARTER

May 18	First day of classes for POD II, Int. II
May 25	Memorial Day Holiday
June 8	Registration for POD I
June 8	OCAP: Access program begins
July 2	OCAP: Access program ends
July 3-4	Independence Day Holiday
July 6	OCAP: Success program begins
July 31	Last day of classes for POD II, Int. II
August 1-7	Final Exams for POD II, Int. II
August 11-13	National Board Exams
August 14	Last day of classes and clinic for POD I
August 14	OCAP: Success program ends
August 17-22	Final Examinations for POD I
September 5	Last day of NEEI clinical program
September 7	Labor Day Holiday

FALL QUARTER

September 11	Registration and Orientation for OD I, Int. I
September 14	First day of classes for OD I, OD II, OD III, POD I, Int. I
October 12	Columbus Day Holiday
November 11	Veteran's Day Holiday
November 21	Last day of classes
November 23-25	Study Days

November 26-27	Thanksgiving Holiday
November 30-	
December 5	Final Examinations

WINTER QUARTER

December 7	First day of classes
December 24	Winter Holiday begins
January 2	Winter Holiday ends
January 4	Classes and clinic resume
January 18	Martin Luther King Holiday
February 15	President's Day Holiday
February 26	Last day of classes
February 27-	
March 6	Final Examinations
March 8-13	Winter Break

SPRING QUARTER

March 15	First day of classes
April 13-15	National Board Exams
April 19	Patriot's Day Holiday
May 21	Last day of classes
May 22-29	Final Examinations
May 30	Graduation
May 31	Memorial Day

FOURTH YEAR ROTATION CALENDAR

Rotation 1:	May 18, 1992 - August 28, 1992
Rotation 2:	August 31, 1992 - November 27, 1992
Rotation 3:	November 30, 1992 - February 26, 1993
Rotation 4:	March 1, 1993 - May 28, 1993



THE NEW ENGLAND COLLEGE OF OPTOMETRY
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